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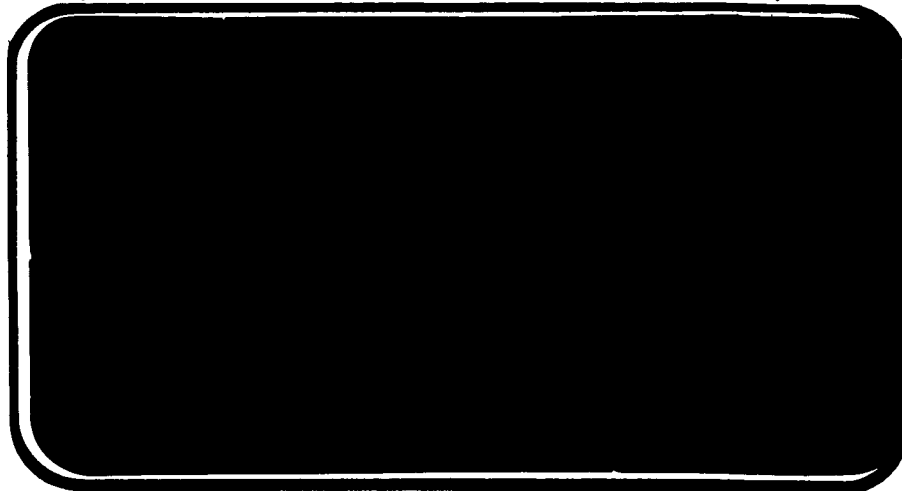
Lyndon B. Johnson Space Center

(NASA-CR-151805) RESULTS OF AN
INVESTIGATION TO VERIFY SHUTTLE ORBITER
VEHICLE 102 AERC CHARACTERISTICS UTILIZING
AN .05 SCALE HI-FIDELITY REMOTE CONTROL
MODEL (39-0) IN THE AMES RESEARCH CENTER

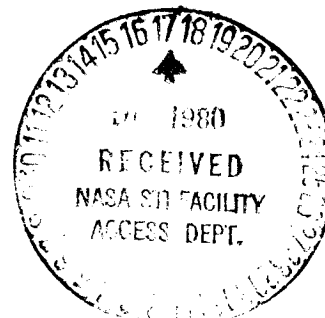
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SPACE SHUTTLE AEROTHERMODYNAMIC DATA REPORT



Data Management Services

HUNTSVILLE ELECTRONICS DIVISION



CHRYSLER
CORPORATION

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VOLUME 5 OF 6

RESULTS OF AN INVESTIGATION TO VERIFY SHUTTLE ORBITER
VEHICLE 102 AERO CHARACTERISTICS UTILIZING AN
.05-SCALE HI-FIDELITY REMOTE CONTROL MODEL (39-0)
IN THE AMES RESEARCH CENTER UNITARY WIND TUNNEL
(OA145A)

by

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Prepared under NASA Contract Number NAS9-13247

by

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Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number: 118-1-11, -97, -87
NASA Series Number: QA145A, B, C
Model Number: 39-0
Test Dates: March 7, 1977 through May 4, 1977
Occupancy Hours: QA145A 480
QA145B 348
QA145C 100

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Chrysler Huntsville Electronics Division/Slidell Engineering Office assumes no responsibility for the data presented other than display characteristics.

RESULTS OF AN INVESTIGATION TO VERIFY SHUTTLE ORBITER
VEHICLE 102 AERO CHARACTERISTICS UTILIZING AN .05-SCALE
HI-FIDELITY REMOTE CONTROL MODEL (39-0) IN THE AMES
RESEARCH CENTER UNITARY WIND TUNNEL (OA145A)

by

R. H. Mulfinger, Rockwell International Space Division

ABSTRACT

This report documents the data obtained in wind tunnel test ØA145A, part of a transonic verification test program (ØA145A, B, C) conducted in the Ames unitary plan tunnel. Data from tests ØA145B and C are documented in DMS-DR-2364 and DMS-DR-2389, respectively. The objective of this test series was to verify orbiter vehicle 102 aerodynamic characteristics with regard to:

1. Basic stability and control over the structural design envelope
2. Fine cut stability and control characteristics along a nominal entry trajectory
3. Control surface hinge moments
4. Reynolds number effects on stability and control, control surface effectiveness and hinge moments
5. Certain hysteresis and control surface interactions observed on other smaller scale model tests
6. Proposed inboard/outboard elevon interaction math model

Testing was conducted over a Mach number range 0.4 to 3.5 with Reynolds number variations between 3.0×10^6 and 9×10^6 per foot for subsonic/transonic tests and 1.0×10^6 to 4.5×10^6 per foot for supersonic tests. The

ABSTRACT (Concluded)

test program included investigations to evaluate model blockage, reflected shock and flow angularity effects in the 11 ft. and 9 x 7 tunnels. Mach ramps were run in the 11 ft. tunnel to help establish data validity near Mach 1.0. Control surface hinge moments were obtained from the integration of measured pressure data on all control surfaces.

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| 120 | OA145A SPEED BRAKE CP VS. XR/CR, INNER SURFACE, ALPHA EFFECT AT SPDBRK = 87.2 | 2031-2042 |
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| 124 | OA145A SPEED BRAKE CP VS. XR/CR, INNER SURFACE, BETA EFFECT AT SPDBRK = 87.2 | 2076-2087 |
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PLOTTED COEFFICIENT SCHEDULE:

- A) CL, CD, C_m , CA vs. α ; CL vs. CD; CL vs. C_m
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- C) Che, Che \emptyset , Che_I, CH_{FD} \emptyset , Ch_{FDI} vs. α
- D) Ch_{bf} vs. α
- E) CH_{sb} vs. β
- F) CY, Cn, C_ℓ vs. δ_r
- G) Ch_{sb} vs. δ_r
- H) CL, CD, C_m vs. δ_{eIB}
Che, Che_I, Ch_{FDI} vs. δ_{eIB}
- I) CL, CD, C_m vs. $\delta_{e\emptyset B}$
Che, Che_I, Ch_{FD} vs. $\delta_{e\emptyset B}$
- J) CL, CD, C_m vs. δ_{aIB}
CY, Cn, C_ℓ vs. δ_{aIB}
Che_I, Che \emptyset vs. δ_{aIB}
- K) CL, CD, C_m vs. $\delta_{a\emptyset B}$
CY, Cn, C_ℓ vs. $\delta_{a\emptyset B}$
Che_I, Che \emptyset vs. $\delta_{a\emptyset B}$
- L) CL, CD, C_m vs. δ_e
- M) CL, CD, C_m vs. δ_{bf}
- N) CY, Cn, C_ℓ vs. α
- O) Che, Che_I, Che \emptyset vs. β

INTRODUCTION

An experimental investigation was performed to determine aerodynamic stability and control characteristics and control surface hinge moments on the OV102 configuration. The test article was an 0.05-scale representation of the SSV orbiter configuration (model 39-0). Tests were performed in the NASA/ARC Unitary Plan Wind Tunnel. Nominal test conditions are given in Table I.

Six-component force data were measured on the complete model using the ARC 4-inch Task MKIVA balance sting mounted through the rear of the model. The model had a total of 280 pressure taps located as shown in Figures 2c through 2h. Control surface pressures were measured on the left hand elevon panels, the body flap and speed brake. These pressures were also integrated to obtain control surface hinge moments.

With the tunnel flowing, data were recorded through an angle-of-attack range from -10° to $+30^{\circ}$ and an angle of sideslip range from -10° to $+10^{\circ}$.

Control surfaces remotely actuated from the control room were: All four elevon panels, the body flap, and the rudder. Speed brake deflections were set manually using a pin indexing system on the rudder shaft.

The report consists of 6 volumes, 1 volume of plotted force data, 2 volumes of plotted pressure data, 2 volumes of tabulated force data, 1 volume of tabulated pressure data on microfiche. The volumes are arranged in the following manner:

INTRODUCTION (Concluded)

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| 2 | OA145A PLOTTED PRESSURE DATA | |
| 3 | OA145A PLOTTED PRESSURE DATA | |
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NOMENCLATURE

| <u>PLOT SYMBOL</u> | <u>MNEMONIC</u> | <u>DEFINITION</u> |
|----------------------------|-----------------|--|
| a | | speed of sound; m/sec, ft/sec |
| ABK | | fuselage base area assigned to pressure tap K, ft. ² |
| AC | | fuselage base sting cavity area, ft. ² |
| A _i | | upper control surface area assigned to pressure tap i, in. ² |
| A _j | | lower control surface area assigned to pressure tap j, in. ² |
| A _m | | speed brake outer surface area assigned to pressure tap m, in. ² |
| A _n | | speed brake inner surface area assigned to pressure tap n, in. ² |
| b _w | | Wind reference span, in. Used to nondimensionalize yawing and rolling moments. |
| C _A | CA | axial-force coefficient; $\frac{\text{axial force}}{qS}$ |
| C _{Ab} | CAB | base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(p_b - p_\infty)/qS$ |
| C _{AC} | CAC | Sting cavity axial force coefficient. Sting cavity pressure is adjusted to an average base pressure. |
| C _{Af} | CAF | forebody axial force coefficient, C _A - C _{Ab} |
| C _{AU} | | axial force coefficient, unadjusted |
| c _{BF} | | body flap reference chord length, in. |
| C _D | CD | drag coefficient; $\frac{\text{drag}}{qS}$ |
| C _{D_b} | CDB | base-drag coefficient; $\frac{\text{base drag}}{qS}$ |
| C _{Df} | CDF | forebody drag coefficient; C _D - C _{D_b} |

NOMENCLATURE (Continued)

| <u>PLOT SYMBOL</u> | <u>MNEMONIC</u> | <u>DEFINITION</u> |
|----------------------------|-----------------|---|
| c_E | | elevon reference chord length, in. |
| c_{FD} | | flipper door reference chord length, in. |
| Ch_{BF} | CHBF | body flap hinge moment coefficient |
| Ch_{EI} | CHEI | inboard elevon hinge moment coefficient |
| Ch_{EO} | CHEO | outboard elevon hinge moment coefficient |
| Ch_{FDI} | CHFDI | inboard flipper door hinge moment coefficient |
| Ch_{FDO} | CHFDO | outboard flipper door hinge moment coefficient |
| Ch_{SB} | CHSB | speed brake hinge moment coefficient |
| C_L | CL | lift coefficient; $\frac{\text{lift}}{qS}$ |
| C_l | CBL | rolling-moment coefficient; $\frac{\text{rolling moment}}{qSb}$ |
| C_m | CIM | pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$ |
| C_n | CYN | yawing-moment coefficient; $\frac{\text{yawing moment}}{qSb}$ |
| C_N | CN | normal-force coefficient; $\frac{\text{normal force}}{qS}$ |
| C_p | CP | pressure coefficient; $(p_1 - p_\infty)/q$ |
| c_w | | wing reference MAC, in. |
| C_Y | CY | side-force coefficient; $\frac{\text{side force}}{qS}$ |
| δ_a | AILRON | Aileron deflection. Positive when L.H. elevon is more trailing edge down than R.H. elevon, degrees. |
| δ_{BF}, δ_{bf} | BDFLAP | Body flap deflection. Positive trailing edge down, degrees. |

NOMENCLATURE (Continued)

| <u>PLOT SYMBOL</u> | <u>MEMORIC</u> | <u>DEFINITION</u> |
|---------------------------|---------------------|--|
| δ_e | ELEVON | Elevon deflection, average of the four individual panel deflections. Positive trailing edge down, degrees. |
| δ_{eLI}, \emptyset | ELV-LI, \emptyset | inboard and outboard L.H. elevon deflections, degrees |
| DELL | DELL | differential elevon setting, left side, outboard-inboard, degrees |
| DELR | DELR | differential elevon setting, right side, outboard-inboard, degrees |
| δ_{eRI}, \emptyset | ELV-RI, \emptyset | inboard and outboard R.H. elevon deflections, degrees |
| δ_r | RUDDER | Rudder deflection in a water plane. Positive trailing edge left, degrees. |
| DRHL | DRHL | Rudder deflection normal to the hinge line. Positive trailing edge left, degrees. |
| δ_{SB} | SPDBRK | Speed brake deflection. Angle between the inside faces of the left and right panels, always positive, degrees. |
| H_{mBF} | | body flap hinge moment, in-lbs |
| H_{mEI} | | inboard elevon hinge moment, in-lbs |
| H_{mEO} | | outboard elevon hinge moment, in-lbs |
| H_{mFDI} | | inboard flipper door hinge moment, in.lbs |
| H_{mFDO} | | outboard flipper door hinge moment, in.lbs |
| H_{MSB} | | speed brake hinge moment, in-lbs |
| LB | | orbiter body reference length, in. |
| L/D | L/D | lift-to-drag ratio; C_L/C_D |
| L/D_f | L/DF | lift-to-forebody drag ratio; C_L/C_{Df} |
| M | MACH | Mach number; V/a |

NOMENCLATURE (Continued)

| <u>PLOT SYMBOL</u> | <u>MNEMONIC</u> | <u>DEFINITION</u> |
|------------------------|-----------------|--|
| P | | pressure; N/m^2 , psf |
| $P_{i,j,m,n}$ | | control surface static pressure corresponding to tap i, j, m or n, psfa |
| P_o | P | freestream static pressure psfa |
| q | Q(PSF) Q | dynamic pressure; $1/2\rho V^2$, psf |
| RN/L | RN/L, RN | unit Reynold's number; per m, per ft |
| S_{BF} | | body flap reference area, $in.^2$ |
| S_E | | elevon reference area, $in.^2$ |
| S_{FD} | | flipper door reference area, $in.^2$ |
| S_{SB} | | speed brake reference area, $in.^2$ |
| S_w | | wing reference area, $ft.^2$ |
| V | | velocity; m/sec, ft/sec |
| x_{BF}/C_B | XBF/CB | chordwise distance aft of body flap hinge line as a fraction of body flap chord |
| X_{CG} | | distance from orbiter nose (IML) to model moment reference center, in. |
| X_{CP} | XCP/L | model center of pressure location in the normal force direction, relative to the model nose (IML), in. |
| x_e/C_e | XE/CE | chordwise distance aft of elevon hinge line as a fraction of local elevon chord |
| x_{FD}/C_{FD} | XF/CF | chordwise distance aft of flipper door hinge line as a fraction of local flipper door chord |
| $X_{i,j,m,n}$ | | transfer distance from static pressure tap i, j, m or n to the corresponding control surface hinge line, in. |

NOMENCLATURE (Concluded)

| <u>PLOT SYMBOL</u> | <u>MNEMONIC</u> | <u>DEFINITION</u> |
|------------------------|-----------------|--|
| x_R/C_R | XR/CR | chordwise distance aft of rudder hinge line as a fraction of local rudder chord |
| α | ALPHA | angle of attack, degrees |
| β | BETA | angle of sideslip, degrees |
| ψ | PSI | angle of yaw, degrees |
| ϕ | PHI | angle of roll, degrees |
| ρ | | mass density; kg/m^3 , slugs/ft^3 |
| η_{BF} | YBF/BB | spanwise distance from body flap left edge as a fraction of body flap span at hinge line |
| η_R | ZR/BR | spanwise distance from rudder bottom edge as a fraction of rudder span on hinge line |
| η_W | 2Y/BW | distance from plane of symmetry as a fraction of wing semi-span |

REMARKS

After completion of the OA145 test program, pressure data for all three program phases were reviewed to determine what updating, corrections, or substitutions would be necessary. The following defines for each program phase those corrections that were deemed necessary and were made to the final data prior to preparation of the final data tape for Dataman. Updating and substitutions were applied only where known deficiencies existed that would have severely compromised the final data.

PRESSURE DATA UPDATING FOR 118-1-11 (OA145A)

Run 18 through 56:16

| <u>Deleted</u> | <u>SV</u> | <u>Port(s)</u> |
|----------------|-----------|-------------------------------|
| | 1 | 3, 4, 5, 8 through 11, 17, 18 |
| | 3 | 18 |
| | 7 | 2, 6, 24 |
| | 9 | 19, 20 |

| <u>Applied</u> | Tap | SV | Port | Pressure to | Tap | SV | Port |
|----------------|-----|---------------|-------------|-------------|---------------|----|------|
| | 127 | (SV3-Port 13) | Pressure to | Tap 132 | (SV3-Port 18) | | |
| | 6 | (SV6-Port 2) | Pressure to | Tap 7 | (SV7-Port 2) | | |
| | 216 | (SV7-Port 3) | Pressure to | Tap 219 | (SV7-Port 6) | | |
| | 240 | (SV8-Port 3) | Pressure to | Tap 207 | (SV7-Port 24) | | |
| | 403 | (SV9-Port 18) | Pressure to | Tap 404 | (SV9-Port 19) | | |
| | 403 | (SV9-Port 18) | Pressure to | Tap 405 | (SV9-Port 20) | | |

Run 50:13 through 56:16

Replaced SV8 CAL with SV9 CAL.

Run 60:1 through 74:11

| <u>Deleted</u> | <u>SV</u> | <u>Port(s)</u> |
|----------------|-----------|------------------------|
| | 1 | 3, 5, 8 through 11, 17 |
| | 4 | 2 |
| | 7 | 6, 24 |
| | 9 | 19, 20 |

REMARKS (Continued)

Applied Tap 5 (SV5-Port 2) Pressure to Tap 4 (SV4-Port 2)
 Tap 216 (SV7-Port 3) Pressure to Tap 219 (SV7-Port 6)
 Tap 240 (SV8-Port 3) Pressure to Tap 237 (SV7-Port 24)
 Tap 403 (SV9-Port 18) Pressure to Tap 404 (SV9-Port 17)
 Tap 403 (SV9-Port 18) Pressure to Tap 405 (SV9-Port 19)

Run 76:1 through 272:9

| <u>Deleted</u> | <u>SV</u> | <u>Port(s)</u> |
|----------------|-----------|----------------------|
| | 1 | 3, 8, through 11, 17 |
| | 7 | 6, 24 |
| | 9 | 19, 20, 24 |

Applied Tap 216 (SV7-Port 3) Pressure to Tap 219 (SV7-Port 6)
 Tap 240 (SV8-Port 3) Pressure to Tap 237 (SV7-Port 24)
 Tap 403 (SV9-Port 18) Pressure to Tap 404 (SV9-Port 19)
 Tap 403 (SV9-Port 18) Pressure to Tap 405 (SV9-Port 20)
 Tap 408 (SV9-Port 23) Pressure to Tap 409 (SV9-Port 24)

Run 67:1 through 341:10

Replaced SV8 CAL with SV9 CAL

Run 185:1 through 272:9

| <u>Deleted</u> | <u>SV</u> | <u>Port</u> |
|----------------|-----------|-------------|
| | 1 | 5 |

Applied Tap 35 (SV1-Port 11) Pressure to Tap 25 (SV1-Port 5)

Run 276:1 through 396:10

| <u>Deleted</u> | <u>SV</u> | <u>Port(s)</u> |
|----------------|-----------|----------------|
| | 7 | 6, 24 |
| | 9 | 19, 20, 24 |

Applied Tap 216 (SV7-Port 3) Pressure to Tap 219 (SV7-Port 6)
 Tap 240 (SV8-Port 3) Pressure to Tap 237 (SV7-Port 24)
 Tap 403 (SV9-Port 18) Pressure to Tap 404 (SV9-Port 19)
 Tap 403 (SV9-Port 18) Pressure to Tap 405 (SV9-Port 20)
 Tap 408 (SV9-Port 23) Pressure to Tap 409 (SV9-Port 24)

REMARKS (Continued)

Run 370:1 through 384

Deleted SV6 Port 2

Applied Tap 5 (SV5-Port 2) Pressure to Tap 6 (SV6-Port 2)

Run 403 through 918:10

Deleted SV7 Ports 6 and 24

Applied Tap 216 (SV7-Port 2) Pressure to Tap 218 (SV7-Port 6)
 Tap 240 (SV8-Port 3) Pressure to Tap 237 (SV7-Port 24)

Run 514 through 534:10

Deleted SV6 Port 2

Applied Taps (SV5-Port 2) Pressure to Tap 6 (SV6-Port 2)

Run 735 through 756:10

Deleted SV2 Port 7

Applied Tap 65 (SV1-Port 25) Pressure to Tap 75 (SV2-Port 7)

Run 874 through 895:8

Deleted SV2 Port 7

Applied Tap 65 (SV1-Port 25) Pressure to Tap 75 (SV2-Port 7)

PRESSURE DATA UPDATING FOR 118-1-97 (OA145B)

Run 156:7 through 337 (End of 5/4/77 running)

| <u>Deleted</u> | <u>SV</u> | <u>Port(s)</u> |
|----------------|-----------|----------------|
| | 3 | 8 |
| | 7 | 24 |

Applied Tap 117 (SV3-Port 3) Pressure to Tap 122 (SV3-Port 8)
 Tap 240 (SV8-Port 3) Pressure to Tap 237 (SV7-Port 24)

Run 340 through 391 (End of test)

| <u>Deleted</u> | <u>SV</u> | <u>Port</u> |
|----------------|-----------|-------------|
| | 7 | 24 |

REMARKS (Continued)

Applied Tap 240 (SV8-Port 3) Pressure to Tap 237 (SV7-Port 24)

P_{BASE} for following runs is lost; substitute as follows:

For Run 228 Substitute P_B from Run 200 Seq. 6

For Run 229 Substitute P_B from Run 200 Seq. 18

PRESSURE DATA UPDATING FOR 118-1-87 (OA145C)

Run 13 through 97

| <u>Deleted</u> | <u>SV</u> | <u>Port(s)</u> |
|----------------|-----------|----------------|
| | 3 | 8 |
| | 7 | 24 |

Applied Tap 117 (SV3-Port 3) Pressure to Tap 122 (SV3-Port 8)
Tap 240 (SV8-Port 3) Pressure to Tap 237 (SV7-Port 24)

Run 82 through 96

| <u>Deleted</u> | <u>SV8</u> | <u>Port 2</u> |
|----------------|------------|---------------|
|----------------|------------|---------------|

Applied Tap 7 (SV7-Port 2) Pressure to Tap 8 (SV8-Port 2)

Run 98 through 188

| <u>Deleted</u> | <u>SV7</u> | <u>Port 24</u> |
|----------------|------------|----------------|
|----------------|------------|----------------|

Applied Tap 240 (SV8-Port 3) Pressure to Tap 237 (SV7-Port 24)

Run 100 through 188

| <u>Deleted</u> | <u>SV3</u> | <u>Port 8</u> |
|----------------|------------|---------------|
|----------------|------------|---------------|

Applied Tap 117 (SV3-Port 3) Pressure to Tap 122 (SV3-Port 8)

It should be noted that for the OA145A program aerodynamic coefficient data presented between freestream Mach numbers of about 0.98 and 1.07 may be suspect. Measured aerodynamic characteristics are affected by tunnel wall blockage and/or reflected shock waves. Therefore, data in this Mach range should be used with caution for diagnostic

REMARKS (Continued)

analysis only. Review of the base pressure data for the OA145C test program revealed significant differences in P_{BASE} between individual pressure taps and are a result of response time problems associated with Scanivalve stepping from the calibrate pressure Port #1 (high positive pressure) to the adjacent (low negative value) base pressure Port #2, on all Scanivalves. For base pressures measured on two adjacent ports, i.e., CPB10 and CPB11 on Scanivalve 11 the second pressure reads the correct value of P_{BASE} . It was therefore concluded that only Port #2 on each Scanivalve, the base pressure tap, is in error. This anomaly was not discovered until after release of the final data tape to Dataman.

Pressure data used for the DATAMAN integrations for control surface hinge moments (documented as special request SPRT9F) were edited further by DATAMAN to exclude taps designated by Rockwell as bad or suspect. The following is a list of the pressure taps deleted by DATAMAN in accordance with the integration request:

| <u>Tap No.</u> | <u>Component</u> | <u>Tap Location</u> |
|----------------|----------------------------|---------------------------------------|
| 132 | Elevon Upper Surface | $\eta_W = 0.8, X_e/C_e = 0.2$ |
| 155 | Elevon Lower Surface | $\eta_W = 0.34, X_e/C_e = 0.6$ |
| 209 | Flipper Door Upper Surface | $\eta_W = 0.534, X_F/C_F = 0.9$ |
| 215 | Flipper Door Upper Surface | $\eta_W = 0.715, X_F/C_F = 0.9$ |
| 219-221 | Flipper Door Upper Surface | $\eta_W = 0.887, \text{all } X_F/C_F$ |
| 325 | Body Flap Lower Surface | centerline @ T. E. |

REMARKS (concluded)

Hinge moment data presented in this report are the on line integration results from the test facility. Pressure data tabulated in volume 6 are also facility data.

CONFIGURATIONS INVESTIGATED

The test article (provided by Rockwell) was a 0.05-scale model 39-0 defined by the VC70-000002B configuration control drawing and fabricated to the March 15, 1976 trajectory 14414.1C/C Numerical Control Lines.

The model was constructed primarily of 6061-T6 aluminum alloy and Armco 17-4 stainless steel. The balance block, wing panels and elevons, vertical tail and speed brakes, and body flap are the principal steel components. The fuselage is all aluminum.

The model was tested in the above fixed configuration in all three facilities. No model boundary layer trips were employed for any testing. The only configuration variables were model orientation and control surface deflection. The following range of control surface deflections were tested and controlled remotely from the control room: Elevon deflections of -35° to $+20^{\circ}$, body flap deflections of -11.7 to 22.5 and -22.8 to $+22.8$ rudder deflection. Speed brake deflections of 0° , 7.5 , 15° , 25° , 40° , 55° , 70° and 87.2° were set manually.

The following nomenclature was used to designate the model components:

| <u>Component</u> | <u>Definition</u> |
|------------------|--|
| B75 | OV102 fuselage including T-zero umbilical panels, crew hatch, and cargo bay door gaps. |
| C16 | Canopy including recessed windshields and observation windows. |
| E64 | Elevons, including elevon/elevon and elevon/fuselage gaps. |
| F16 | Body flap. |

CONFIGURATIONS INVESTIGATED(Concluded)

| <u>Component</u> | <u>Definition</u> |
|------------------|---|
| FD ₃ | Flipper doors. |
| FR ₂₂ | Fairings for the forward cargo bay door hinges, 6 per side. |
| HG ₁ | Cargo bay door hinges, 13 per side. |
| M ₅₂ | OMS pods. |
| N ₁₀₈ | Forward RCS thruster nozzle ports. |
| N ₁₀₉ | Main propulsion system nozzles (inner surfaces cut away for sting clearance). |
| N ₁₁₀ | OMS nozzles. |
| N ₁₁₁ | Aft RCS thruster nozzles and ports. |
| R ₂₀ | Rudder, split into left and right speed brake panels. |
| V ₂₇ | Vertical tail. |
| VT ₁₀ | Cargo bay vents, 4 per side. |
| VT ₁₁ | wing/landing gear bay vents, 1 per side. |
| VT ₁₂ | Cabin vents, 1 per side. |
| VT ₁₃ | Forward RCS vents, 1 per side. |
| VT ₁₄ | Aft fuselage vents, 1 per side. |
| VT ₁₅ | OMS RCS vents, 1 per side. |
| VT ₁₆ | Flipper door vents. |
| VT ₁₇ | Miscellaneous vents, ports and penetrations. |
| W ₁₃₁ | OV102 wing. |

The above nomenclature is depicted in Figures 2a and 2b.

INSTRUMENTATION

The test was conducted with the following model instrumentation:

1. 4.0-inch Task MKIVA, 6-component internal balance.
2. Eleven Scanco S-type, 48-port Scanivalves for model pressures. One Scanivalve for sting pressures.
3. 36 wing and 97 elevon static pressure taps.
4. 32 flipper door static pressures, 24 external, 8 internal
5. 5 aft fuselage and 23 body flap static pressure taps.
6. 9 vertical tail and 45 speed brake static pressure taps.
7. 9 fuselage base and 2 balance cavity static pressure taps.
8. 2 air data probe forward fuselage flush static pressure taps.
9. 20 sting static pressure taps.

Six model control surfaces were remotely actuated. Included were the following instrumentation:

1. Hydraulic actuation systems for the four elevon panels and the body flap.
2. Electric motor actuation system for the rudder.
3. Angular position pots for each of the control surfaces.
4. A model mounted hydraulic supply system, including pump, and servo-control valves.
5. A model control console housing the electrical components of the servo systems.

Force data for the orbiter was measured by a six-component balance, sting mounted through the rear of the model. The primary balance for this test was the ARC 4-inch Task MKIVA and the backup balance was the Task MK VI provided by Rockwell.

INSTRUMENTATION (Continued)

The model was instrumented with a total of 280 static pressure taps. These pressures were measured by eleven model mounted S-type Scanivalves provided by Rockwell International.

The sting was instrumented with 20 static pressure taps, 10 each top and bottom spaced every 2 inches aft of the base. These pressures were measured by a single S-type Scanivalve mounted in the tunnel strut BOR. The Scanivalve was provided by Rockwell International.

All pressure instrumentation electrical leads were supplied by Rockwell International. ARC provided reference, calibrate, and backing pressure tubes from their source to the aft end of the model. The routing of all instrumentation leads was internal to the sting, except for the sting static taps.

The locations and tap identification numbers of all orifices are shown in Tables III through VI and Figures 2c through 2h.

Tunnel wall static pressure, measured upstream of the test section, was used as the reference pressure for all Scanivalves.

The four elevon panels and the body flap were remotely controlled using a model mounted hydraulic servo control system. The hydraulic system consisted of 1 H.P. AC motor, pump and reservoir, Moog Type 30 servovalves, and Oildyne Style A hydraulic cylinders. The electrical components of the servo-system, the operational amplifiers and balancing pots, were contained in a model control console located in the control room.

INSTRUMENTATION (Concluded)

The rudder panels were remotely controlled using a Globe planetary gear motor, Type 8L. An electrical servo system for the rudder, utilizing a Moog amplifier, was built into the model control console.

Control surface angular position was read by rotary pots located as closely as possible to each surface hingeline. The pots for the inboard elevon panels and the body flap were 7/8-inch Beckman Helipots, model 6173 single turn, dual element. The pots for the outboard elevons and rudder panels were 1/2-inch Markite Series EM05 pots, also single turn, dual element.

The dual outputs from each pot allowed one output to be utilized as the feedback element in the control servo loop, with the second output being used to set control position and compute surface positions in the data reduction program.

The model control console was operated manually. Unbalancing of the servo to set a given control deflection was accomplished by manually adjusting the Helipots on the control console. The position of each control surface was read by separate digital voltmeters mounted on the console.

TEST FACILITIES DESCRIPTION

Ames 11 x 11-Foot Transonic (ØA145A)

The Ames 11 x 11-Foot Transonic Wind Tunnel is a variable density, closed return, continuous flow type. This tunnel has an adjustable nozzle (two flexible walls) and a slotted test section to permit transonic testing over a Mach number range continuously variable from 0.4 to 1.4.

Ames 8 x 7-Foot Supersonic (ØA145C)

The Ames 8 x 7-Foot Supersonic Wind Tunnel is a closed-return, variable-density tunnel with a 8- by 7-foot rectangular test section. The nozzle has flexible side walls with fixed upper and lower surfaces. Mach number range is continuously variable from 2.45 to 3.5. Tunnel stagnation pressure can be varied from 0.3 to 2.0 atmospheres and Reynold's number per foot varies from 1.0×10^6 to 5.0×10^6 .

Ames 9 x 7-Foot Supersonic (ØA145B)

The Ames 9 x 7-Foot Supersonic Wind Tunnel is a variable density, continuous flow type with an adjustable nozzle to permit supersonic testing over a Mach number range continuously variable from 1.5 to 2.5. The nozzle is of the asymmetric, sliding-block type in which the variation of the test section Mach number is achieved by translating, in the stream-wise direction, the fixed-contour block that forms the floor of the nozzle.

DATA REDUCTION

Model force and moment data was reduced to coefficient form in both body and stability axes systems. Moment data was reduced about a moment reference center corresponding to 65% of the reference body length at W.L. 375. Model angle of attack and sideslip were corrected for support hardware deflections and tunnel flow angularity. Angle-of-attack flow angularity was determined from upright and inverted model runs at the beginning of the test. Standard facility corrections were applied as required. All model pressure data was reduced to the pressure coefficient form $(P-P_o)/q$.

Six-component body axes data was computed from balance outputs with axial force being adjusted for the differences between the average sting cavity pressure and an average base pressure.

$$C_A = C_{A_U} - C_{A_C}$$

where:

$$C_{A_C} = - (C_{P_{Cavg.}} - C_{P_{Bavg.}}) \frac{(A_c)}{S_w}$$

$$C_{P_{Cavg.}} = \frac{C_{P10} + C_{P11}}{2}$$

$$C_{P_{Bavg.}} = \frac{(C_{P1} + C_{P2} + C_{P5} + C_{P6} + C_{P7} + C_{P8})}{6}$$

Forebody axial force coefficients were computed by adjusting the base pressure to freestream.

$$C_{A_F} = C_A - C_{A_B}$$

DATA REDUCTION (Continued)

where:

$$C_{AB} = \frac{-1}{S_w} \left[\sum_{K=1}^9 (C_{PK} A_{BK}) + (C_{PB_{avg.}} A_C) \right]$$

Center-of-pressure location of the model normal force was computed as a ratio to the reference body length.

$$\frac{X_{Cp}}{LB} = \frac{1}{LB} \left(X_{CG} - \frac{C_m}{C_N} \bar{c} \right)$$

Stability axes coefficients C_L and C_D were computed from body axes coefficients C_N and C_A . Model lift-to-drag ratio was then computed from C_L and C_D .

$$L/D = C_L/C_D$$

Model control surface positions from the run schedule were input to the controller manually, i.e., constant or variable values were input depending on the sweep variable for the given run. Table look up values of δ_e , δ_{BF} , and δ_A , based on calibration data, were stored in the data reduction program and employed to determine control surface position from the actual set values of controller voltages input to the ARC instrumentation system.

Model control surface hinge moments (on line data only) were computed by the facility from control surface pressures using an area-moment arm method as detailed below:

$$H_{MEI} = \sum_{I=101}^{124} [(P_I) (A_I) (x_I)] - \sum_{J=150}^{173} [(P_J) (A_J) (x_J)]$$

DATA REDUCTION (Continued)

$$C_{HEI} = \frac{H_{MEI}}{qS_E C_E}$$

$$H_{MEO} = \sum_{i=125}^{149} [(P_i) (A_i) (x_i)] - \sum_{j=174}^{197} [(P_j) (A_j) (x_j)]$$

$$C_{HEO} = \frac{H_{MEO}}{qS_E C_E}$$

Inboard flipper door

$$H_{MFDI} = \sum_{i=201}^{212} [(P_i) (A_i) (x_i)] - \sum_{j=225}^{236} [(P_j) (A_j) (x_j)]$$

$$C_{h_{FDI}} = \frac{H_{MFDI}}{qS_{FD} C_{FD}}$$

Outboard flipper door

$$H_{MFDO} = \sum_{i=213}^{224} [(P_i) (A_i) (x_i)] - \sum_{j=237}^{248} [(P_j) (A_j) (x_j)]$$

$$C_{h_{FDO}} = \frac{H_{MFDO}}{qS_{FD} C_{FD}}$$

Body flap hinge moments

$$H_{MBF} = \sum_{i=301}^{307} [(P_i) (A_i) (x_i)] - \sum_{j=314}^{325} [(P_j) (A_j) (x_j)]$$

$$C_{h_{BF}} = \frac{H_{MBF}}{qS_{BF} C_{BF}}$$

DATA REDUCTION (Continued)

where:

i = upper surface pressure tap numbers

j = lower surface pressure tap numbers

Speed brake hinge moments

$$H_{MSB} = \sum_{m=410}^{436} [(P_m) (A_m) (x_m)] - \sum_{n=437}^{454} [(P_n) (A_n) (x_n)]$$

$$C_{hSB} = \frac{H_{MSB}}{q_{SSBCSB}}$$

where:

m = outer surface pressure tap numbers

n = inner surface pressure tap numbers

Pressure coefficients judged to be incorrect were deleted and areas reassigned by manual input to the on-line computer program. Final hinge moment data were integrated by Dataman from plotted and smoothed pressure coefficient data.

The following flow angularity corrections were applied to the final data:

OA145A No flow angularity, blockage or wall corrections were applied to the data obtained in the 11 ft. transonic facility.

OA145B Flow angularity corrections based on comprehensive evaluations of "TACT" (Transonic Aircraft Technology) program test data were applied to the final data. These corrections represent large model values above and beyond standard facility corrections.

DATA REDUCTION (Continued)

OA145C Standard facility flow angularity corrections were applied to the data obtained in the 8 x 7 facility.

Reference dimensions and constants used were:

| <u>SYMBOL</u> | <u>DESCRIPTION</u> | <u>MODEL SCALE</u> | <u>FULL SCALE</u> |
|---------------|---|------------------------|-----------------------|
| S_w | Wing reference area, ft. ² | 6.725 | 2690. |
| b_w | Wing reference span, in. | 46.834 | 936.68 |
| c_w | Wing reference MAC, in. | 23.740 | 474.81 |
| MRC | Moment Reference Center | | |
| | X, in. | 53.834 | 1076.68 |
| | Y, in. | 0.0 | 0.0 |
| | Z, in. | 18.75 | 375.0 |
| X_{CG} | Length, nose IML to MRC, in. | 41.934 | 838.68 |
| LB | Body reference Length, in. | 64.515 | 1290.3 |
| S_E | Elevon reference area, in. ² | 75.60 | 30240. |
| c_E | Elevon reference chord, in. | 4.535 | 90.7 |
| S_{FD} | Flipper door reference area, in. ² | 75.60 | 30240. |
| c_{FD} | Flipper door reference chord, in. | 4.535 | 90.7 |
| S_{BF} | Body flap reference area, in. ² | 48.60 | 19440. |
| c_{BF} | Body flap reference chord, in. | 4.050 | 81.0 |
| S_{SB} | Speed brake reference area, in. ² | 36.05 | 14421.6 |
| c_{SB} | Speed brake reference chord, in. | 3.660 | 73.2 |
| A_C | Base sting cavity area, ft. ² | 0.1963 | |
| A_{B1} | Base area, Tap 1, ft. ² | 0.0587 | |
| A_{B2} | Base area, Tap 2, ft. ² | 0.0824 | |

DATA REDUCTION (Concluded)

| <u>SYMBOL</u> | | <u>MODEL SCALE</u> | <u>FULL SCALE</u> |
|-----------------|------------------------------------|------------------------|-----------------------|
| A _{B3} | Base area, Tap 3, ft. ² | 0.0467 | |
| A _{B4} | Base area, Tap 4, ft. ² | 0.0553 | |
| A _{B5} | Base area, Tap 5, ft. ² | 0.0772 | |
| A _{B6} | Base area, Tap 6, ft. ² | 0.1146 | |
| A _{B7} | Base area, Tap 7, ft. ² | 0.1798 | |
| A _{B8} | Base area, Tap 8, ft. ² | 0.0860 | |
| A _{B9} | Base area, Tap 9, ft. ² | 0.1950 | |

REFERENCES

1. SD76-SH-0189 "Pretest Information for Tests OA145A, B, C of a .05-Scale Model (39-0) of the SSV Orbiter 102 in the NASA/ARC Unitary Plan Wind Tunnel," dated September 30, 1976.
2. Report NA76-662, "Structural Analysis for the 0.05-Scale SSV Orbiter Verification Model 39-0."
3. Rockwell Internal Letter SAS/AERO/77-038, "Model Readiness Review Model 39-0," dated December 20, 1976.
4. SPRT9F-1, "Elevon and Flipper Door Hinge Moments from Pressure Data of Test OA145A, B, C, and OA101", November 1978.

TABLE I.

| TEST : 0A145A, B, C | | DATE : | |
|---------------------|--|---------------------------------------|--|
| TEST CONDITIONS | | | |
| MACH NUMBER | REYNOLDS NUMBER (per unit length) x 10 ⁶ | DYNAMIC PRESSURE (pounds/sq. inch) | STAGNATION TEMPERATURE (degrees Fahrenheit) |
| 0.6 | 5.0, 3.0, 9.0 | | |
| 0.8 | | | |
| 0.9 | | | |
| 0.95 | | | |
| 1.05 | | | |
| 1.10 | | | |
| 1.20 | | | |
| 1.30 | | | |
| 1.40 | ▼ | | |
| 1.55 | 4.0 | | |
| 2.0 | 1.5, 3.5, 4.5 | | |
| 2.5 | 2.5, 3.25, 3.5, 4.0 | | |
| 3.0 | 1.0, 2.5 | | |
| 3.5 | 2.5 | | |
| | | | |
| | | | |

BALANCE UTILIZED: 4 INCH TASK MKIVA

| | CAPACITY: | ACCURACY: | COEFFICIENT TOLERANCE: |
|----|-----------------------------|-------------|---------------------------|
| NF | <u>6000/6000 LBS</u> | <u>0.5%</u> | <u>*</u> |
| SF | <u>3000/3000 LBS</u> | <u>"</u> | |
| AF | <u>2500 LBS</u> | <u>0.2%</u> | |
| PM | <u> </u> | | |
| RM | <u>16000 IN-LB</u> | <u>0.5%</u> | |
| YM | <u> </u> | | |

COMMENTS: Accuracy applies to maximum gage capacity.
 *Coefficient tolerance based on root sum square of forward and aft gages,
 tolerance quoted for range of Mach number tested.
 See Table VIII.

TABLE II. DATA SET/RUN COLLATION SUMMARY

[illegible]

• DENOTES PRESSURE TAKEN

TABLE II. DATA SET/RUN COLLATION SUMMARY (Continued)

TEST : $\Phi A145A(ARC11-118)$

DATA SET / RUN NUMBER COLLATION SUMMARY

DATE :

| DATA SET IDENTIFIER | CONFIGURATION | MACH | | | | | | | | | | | | | | TEST RUN NUMBERS | | | | | | | | | | |
|---------------------|----------------|----------|--------------|------------|------------|------------|------------|------------|------------|----------|-----|------|------|------|------|------------------|-----|------|------|------|--|--|--|--|--|--|
| | | α | e | δe | δa | δb | δc | δd | δR | R_e/Fr | 0.6 | 0.8 | 0.9 | 0.95 | 1.05 | 1.1 | 1.2 | 1.3 | 1.4 | | | | | | | |
| R2FO12 | ϕ_1 BASIC | FC | 0 | 0 | 0 | 0 | 0 | 25 | 0 | 5 | | 60 | 112 | 89 | 62 | 171 | 122 | 81 | 78 | 145 | | | | | | |
| 13 | | C | 0 | | | | | | | 3 | | 269 | 272 | 280 | 276 | | | | | | | | | | | |
| 14 | | D | 0 | | | | | | | 9 | | 337 | 338 | 382 | 381 | | | | | | | | | | | |
| 15 | | FC | 2 | | | | | | | 5 | | 193 | 121 | 172 | 132 | | | 56 | 55 | 146 | | | | | | |
| 16 | | -5 | A | | | | | | | 3 | | | | 218 | 277 | | | | | | | | | | | |
| 17 | | O | A | | | | | | | 5 | | 185° | 113° | 101 | 125° | | | 162 | 133° | 152° | | | | | | |
| 18 | | 5 | A | | | | | | | 5 | | 186° | 114° | 97 | | 432 | 163 | 134° | 153° | | | | | | | |
| 19 | | 5 | A | | | | | | | 5 | | | | 179 | 123 | | | | | | | | | | | |
| 20 | | 5 | A | | | | | | | 5 | | | | 180 | 124 | | | | | | | | | | | |
| 21 | | 5 | A | | | | | | | 3 | | 270 | 271 | 279 | 281 | | | | | | | | | | | |
| 22 | | 5 | A | | | | | | | 9 | | 336 | 339 | 383 | 341 | | | | | | | | | | | |
| 23 | | 10 | A | | | | | | | 5 | | 187° | 115° | 173° | 126° | | | 164 | 135° | 156° | | | | | | |
| 24 | | 15 | A | | | | | | | 5 | | 188° | 116° | 174° | 127° | | | 165 | 137° | | | | | | | |
| 25 | | 13 | A | | | | | | | 5 | | | | | | | | | | 157 | | | | | | |

COEFFICIENTS

| | | | | | | | | | | | | | | |
|-----------|---|---|----|----|----|----|----|----|----|----|----|----|----|----|
| | | 7 | 13 | 19 | 25 | 31 | 37 | 43 | 49 | 55 | 61 | 67 | 75 | 76 |
| a OR B | $\alpha(FC) = -10, -5, 0, 3, 5, 5, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 20$ | | | | | | | | | | | | | |
| SCHEDULES | $\alpha(C) = -5, 0, 2.5, 5, 0, 7, 8, 10, 12, 15$ | | | | | | | | | | | | | |
| | $d(V) = 0, 2.5, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15$ | | | | | | | | | | | | | |

DOVAR (1) DOVAR (2)
 $\beta(A) = -6, -2, -4, 0, 0.5, 1, 2, 3, 4, 6$
 $\beta(FC+T) = -6, -4, -3, -2, -1, 0, 0.5, 1, 2, 3, 4, 6$
 $\beta(FC+T) = -6, -4, -3, -2, -1, 0, 0.5, 1, 2, 3, 4$
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TABLE II. DATA SET/RUN COLLATION SUMMARY (Continued)

| TEST: $\Phi A145A(\text{ARC } 11 - 118)$ | | | | | | | | | | DATA SET/RUN NUMBER COLLATION SUMMARY | | | | | | | | | | DATE : | | | | | |
|--|--------------------------|---|---------|------------|------------|------------|------------|------------|------------|---------------------------------------|------------|------------|------------|---|-----|-----|------|------|-----|--------|-----|-----|--|--|--|
| DATA SET IDENTIFIER | | CONFIGURATION | | MACH | | | | | | | | | | TEST RUN NUMBER: | | | | | | | | | | | |
| | | α | β | δe | δa | δb | δc | δd | δe | δf | δg | δh | δi | 0.6 | 0.8 | 0.9 | 0.95 | 1.05 | 1.1 | 1.2 | 1.3 | 1.4 | | | |
| R2FO26 | ELEV ϕ N EFFECTS | E | 0 | 5 | 0 | 0 | 0 | 25 | 0 | 5 | 69 | 109 | 92 | 63 | 244 | 242 | 86 | 74 | 149 | | | | | | |
| 27 | | E | 0 | 10 | | | | | | | 72 | 108 | 100 | 66 | 247 | 243 | 87 | 73 | 150 | | | | | | |
| 28 | | C | 0 | 20 | | | | | | | 404 | 408 | 393 | 394 | | | | 428 | 427 | 416 | | | | | |
| 29 | | E | 0 | -5 | | | | | | | 70 | 110 | 91 | 64 | 245 | 241 | 85 | 76 | 148 | | | | | | |
| 30 | | C | 0 | -10 | | | | | | | 71 | 111 | 90 | 65 | 246 | 240 | 84 | 77 | 147 | | | | | | |
| 31 | | C | 0 | -20 | | | | | | | 405 | 409 | 392 | 395 | | | | 429 | 426 | 417 | | | | | |
| 32 | | C | 0 | -30 | | | | | | | 406 | 410 | 391 | 396 | | | | 430 | 425 | 424 | | | | | |
| 33 | FLY ELEV ϕ N | 5 | 0 | B | 0 | 0 | 25 | 0 | 5 | 261 | | | | | | | | | | | | | | | |
| 34 | | 5 | 0 | FC | | | | | | 68 | 105 | 104 | 67 | | 437 | 88 | 80 | 151 | | | | | | | |
| 35 | | 0 | 0 | FC | | | | | | | | 443 | 440 | | | | | | | | | | | | |
| 36 | | 10 | 0 | FC | | | | | | | | 442 | 441 | | | | | | | | | | | | |
| 37 | | 5 | 2 | B | | | | | | | 262 | 256 | 203 | 819 | | | | | | | | | | | |
| 38 | ELEV ϕ N IN β | 0 | A | -5 | 0 | 0 | 25 | 0 | 5 | 785 | 778 | 777 | 770 | | 438 | 236 | 226 | 305 | | | | | | | |
| 39 | | 0 | A | 5 | | | | | | 784 | 779 | 776 | 771 | | | 766 | 765 | 758 | | | | | | | |
| 40 | | 5 | A | 10 | | | | | | 192 | 120 | 178 | 131 | | 436 | 169 | 141 | 161 | | | | | | | |
| 41 | | | | 5 | | | | | | 191 | 119 | 177 | 130 | | 435 | 168 | 140 | 160 | | | | | | | |
| 42 | | | | -5 | | | | | | 190 | 118 | 176 | 129 | | 434 | 167 | 139 | 159 | | | | | | | |
| 43 | | | | -10 | | | | | | 189 | 117 | 175 | 128 | | 433 | 166 | 138 | 158 | | | | | | | |
| | | 7 | 13 | 19 | 25 | 31 | 37 | 43 | 49 | 55 | 61 | 67 | 75 | 76 | | | | | | | | | | | |
| | | COEFFICIENTS | | | | | | | | | | | | IDVAR (1) IDVAR (2) NDV | | | | | | | | | | | |
| | | α OR β SCHEDULES $\alpha(E) = -10, -5, 0, 3, 5.5, 8.5, 10.5, 12.5, 15.5, 20.5$ | | | | | | | | | | | | $\delta e(FC) = -10, -8, -6, -4, -3, -2, -1, 0, 1, 2, 3, 4, 6, 8, 10$ | | | | | | | | | | | |
| | | $\delta e(\beta) = -30, -20, -15, -10, -6, -4, -2, 0, 2, 4, 6, 10, 15$ | | | | | | | | | | | | | | | | | | | | | | | |

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TABLE II. DATA SET/RUN COLLATION SUMMARY (Continued)

| TEST: $\Phi A145A(ARC11-118)$ | | | | | | | | | | | | | | | DATE: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|--|---------------|----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---------------|
| DATA SET/RUN NUMBER COLLATION SUMMARY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DATA SET IDENTIFIER | | CONFIGURATION | | MACH | | | | | | | | | | | | | | | TEST RUN NUMBERS: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | α | θ | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe | δa | δe </ |

TABLE II, DATA SET/RUN COLLATION SUMMARY (Continued)

| TEST: $\Phi A145A(ARC11-118)$ | | | | | | | | | | | | | | | | | |
|---------------------------------------|-------------------------------|---|------------|------------|-------------------|-------------------|------------|---------|-----|-----|-----|------|------|-----|-----|-----|-----|
| DATE: | | | | | | | | | | | | | | | | | |
| DATA SET/RUN NUMBER COLLATION SUMMARY | | | | | | | | | | | | | | | | | |
| DATA SET IDENTIFIER | CONFIGURATION | MACH | | | | | | | | | | | | | | | |
| | | α | δe | δa | $\delta \delta F$ | $\delta \delta B$ | δR | R_e/E | 0.6 | 0.8 | 0.9 | 0.95 | 1.05 | 1.1 | 1.2 | 1.3 | 1.4 |
| R2F061 | RUDDER EFFECT | 0 | 0 | 0 | 0 | 25 | A | 5 | 329 | 344 | 340 | 413 | | | | | |
| 62 | | 5 | 0 | | | | FCIT | | 323 | 345 | 350 | 414 | | 357 | 360 | 380 | 370 |
| 63 | | 5 | 0 | | | | FCIT | | 324 | | 351 | | | | 361 | | |
| 64 | | 10 | 0 | | | | A | | 325 | 346 | 352 | 415 | | | 362 | 379 | 371 |
| 65 | | 15 | 0 | | | | A | | 326 | | | | | | 363 | 378 | 372 |
| 66 | | C | 0 | | | | -5 | | 330 | 347 | 384 | 411 | | 358 | 364 | 377 | 373 |
| 67 | | 5 | A | | | | -5 | | 327 | 348 | 385 | 412 | | 359 | 365 | 376 | 374 |
| 68 | | 5 | A | | | | -228 | | 328 | | 389 | | | | 366 | | 375 |
| 69 | | 0 | 5 | | | | A | | 322 | | 349 | | | | | | |
| 70 | $\delta \delta B = 0$ | C | 0 | | | | 0 | | 644 | 659 | 632 | 623 | | 622 | 609 | | 600 |
| 71 | | G | 2 | | | | | | 882 | 883 | 884 | 885 | | | | | |
| 72 | | 0 | B | | | | | | 645 | | 633 | 626 | | | 614 | | |
| 73 | | 5 | B | | | | | | 646 | 660 | 634 | 627 | | 621 | 613 | | 604 |
| 74 | | 10 | B | | | | | | 647 | | 635 | 628 | | | 615 | | 605 |
| 75 | $\delta \delta B = 0(RUDDER)$ | 0 | 0 | | | | A | | 648 | | 636 | 629 | | | 616 | | |
| 76 | | 5 | 0 | | | | A | | 649 | 661 | 637 | 630 | | 620 | 617 | | 606 |
| 77 | | 10 | 0 | | | | A | | 650 | | 638 | 631 | | | 618 | | 607 |
| 78 | | 15 | 0 | | | | A | | 651 | | 639 | | | | 619 | | 608 |
| | | 7 | 13 | 19 | 25 | 31 | 37 | 43 | 49 | 55 | 61 | 67 | 75 | 76 | | | |
| | | COEFFICIENTS | | | | | | | | | | | | | | | |
| | | $\delta R(A) = -15, -10, -5, -2.5, 0, 2.5, 5, 10, 15, 18, 22, 28$ | | | | | | | | | | | | | | | |
| | | $\delta R(FCIT) = -15, -10, -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, 10, 15, 18, 22, 28$ | | | | | | | | | | | | | | | |
| | | IDVAR (1) IDVAR (2) NDV | | | | | | | | | | | | | | | |
| | | 5, 10, 15, 18, 22, 28 | | | | | | | | | | | | | | | |

TABLE II. DATA SET/RUN COLLATION SUMMARY (Continued)

| TEST: $\Phi A145A(ARC 11 - 118)$ | | | | | | | | | | | | | | | | | | DATE : | | | | | | | | | | | | | | | | | |
|---|---------|---------------|------------|------------|--------------|------------|-------|------------|------------|-----|------|------|-----|-----|-----|-----|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| DATA SET / RUN NUMBER COLLATION SUMMARY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DATA SET IDENTIFIER | | CONFIGURATION | | MACH | | | | | | | | | | | | | | TEST RUN NUMBER: | | | | | | | | | | | | | | | | | |
| α | β | δe | δa | δb | $\delta s b$ | δR | R/E | 0.6 | 0.8 | 0.9 | 0.95 | 1.05 | 1.1 | 1.2 | 1.3 | 1.4 | | | | | | | | | | | | | | | | | | | |
| R2F079 | C | 0 | 0 | 0 | 0 | -5 | 5 | 652 | | 640 | 624 | | | 610 | | 601 | | | | | | | | | | | | | | | | | | | |
| 80 | B | 0 | 0 | 0 | 0 | -5 | 5 | 653 | | 641 | 625 | | | 611 | | 602 | | | | | | | | | | | | | | | | | | | |
| 81 | B | 0 | 0 | 0 | 0 | -228 | 5 | 654 | | 642 | | | | 612 | | 603 | | | | | | | | | | | | | | | | | | | |
| 82 | C | 0 | 0 | 0 | -117 | 0 | 5 | 8.4 662 | 0.6 657 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 83 | B | 0 | 0 | 0 | -117 | 0 | 5 | 663 | 658 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 84 | C | 0 | 0 | 0 | 0 | 7.5 | 0 | 906 | 904 | 901 | 899 | | | | | | | | | | | | | | | | | | | | | | | | |
| 85 | C | 2 | | | | 0 | | 907 | 905 | 902 | 900 | | | | | | | | | | | | | | | | | | | | | | | | |
| 86 | B | 0 | | | | D | | 908 | | 903 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 87 | C | 0 | 0 | 0 | 0 | 15 | 0 | 705 | 699 | 693 | 680 | | | 679 | | 666 | | | | | | | | | | | | | | | | | | | |
| 88 | B | | | | | 0 | | 703 | 698 | 692 | 681 | | | 678 | | 667 | | | | | | | | | | | | | | | | | | | |
| 89 | O | 0 | | | | A | | 700 | 694 | 688 | 685 | | | 673 | | 670 | | | | | | | | | | | | | | | | | | | |
| 90 | S | 0 | | | | A | | 702 | 696 | 690 | 684 | | | 676 | | 669 | | | | | | | | | | | | | | | | | | | |
| 91 | O | 0 | | | | A | | 701 | 695 | 687 | 686 | | | 674 | | 671 | | | | | | | | | | | | | | | | | | | |
| 92 | B | 0 | | | | A | | | | | | | | 675 | | 672 | | | | | | | | | | | | | | | | | | | |
| 93 | B | | | | | -5 | | 704 | 697 | 691 | 683 | | | 677 | | 668 | | | | | | | | | | | | | | | | | | | |
| 1 | 7 | 13 | 19 | 25 | 31 | 37 | 43 | 49 | 55 | 61 | 67 | 73 | 76 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | COEFFICIENTS | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | $\alpha(q) = -5, 0, 2.5, 5, 8, 10, 12, 15, 17, 19$ | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | SCHEDULES $\delta R(D) = -10, -5, -2.5, 0, 2.5, 5, 0, 10$ | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | IDVAR (1) IDVAR (2) NDV | | | | | | | | | | | | | | | | | |

NASA-MSEC-MAF

TABLE II. DATA SET/RUN COLLATION SUMMARY (Continued)

| TEST : $\Phi A145A(ARC 11 - 118)$ | | | | | | | | | | | | | | | | | | DATE : | | | | | | | | | |
|---|--|--------------|---------|--------------|--------------|--------------|--------------|--------------|--------------|-----|-----|------------------|------|-----------|-----|-----|-----|--------|--|--|--|--|--|--|--|--|--|
| DATA SET / RUN NUMBER COLLATION SUMMARY | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DATA SET IDENTIFIER | CONFIGURATION | MACH | | | | | | | | | | TEST RUN NUMBERS | | | | | | | | | | | | | | | |
| | | α | β | δe | δa | δb | δs | δr | Re/ℓ | 0.6 | 0.8 | 0.9 | 0.95 | 1.05 | 1.1 | 1.2 | 1.3 | 1.4 | | | | | | | | | |
| R2F094 | $\delta s \beta = 40$ | C | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 731 | 726 | 725 | 717 | | | 713 | | 710 | | | | | | | | | |
| 95 | \downarrow | 5 | B | | | | | 0 | | 728 | 727 | 724 | 718 | | | 714 | | 708 | | | | | | | | | |
| 96 | $\delta s \beta = 40(RUDDER)$ | 5 | 0 | | | | | A | | 730 | | 721 | 720 | | | 712 | | 711 | | | | | | | | | |
| 97 | $\delta s \beta = 40(RUDDER 10 \beta)$ | 5 | B | \downarrow | \downarrow | \downarrow | \downarrow | -5 | \downarrow | 729 | | 723 | 719 | | | 715 | | 709 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 98 | $\delta s \beta = 55$ | C | 0 | 0 | 0 | 0 | 55 | 0 | 5 | 585 | 574 | 563 | 560 | | 551 | 534 | 533 | 514 | | | | | | | | | |
| 99 | | C | 2 | | | | | | | 872 | 871 | 870 | 869 | | | 868 | 867 | 866 | | | | | | | | | |
| A0 | | 0 | A | | | | | | | 590 | 575 | 572 | 553 | | | 542 | | | | | | | | | | | |
| A1 | | 5 | C | | | | | | | 589 | 582 | 567 | 556 | | 552 | 538 | 530 | 518 | | | | | | | | | |
| A2 | | 10 | C | | | | | | | 591 | 576 | 573 | 554 | | | 547 | 526 | 525 | | | | | | | | | |
| A3 | \downarrow | 15 | C | | | | | \downarrow | | 592 | | 574 | 555 | | | 546 | 527 | 524 | | | | | | | | | |
| A4 | $\delta s \beta = 55(RUDDER)$ | 0 | 0 | | | | | A | | 593 | 577 | 571 | 558 | | | 543 | | | | | | | | | | | |
| A5 | | 5 | 0 | | | | | A | | 584 | 583 | 568 | 562 | | | 541 | 529 | 520 | | | | | | | | | |
| A6 | | 10 | 0 | | | | | A | | 594 | 578 | 570 | 559 | | | 544 | 528 | 521 | | | | | | | | | |
| A7 | | 15 | 0 | | | | | A | | | | | | | | 545 | | 522 | | | | | | | | | |
| A8 | \downarrow | C | 0 | | | | | -5 | | 586 | 580 | 564 | 561 | | | 548 | 532 | 515 | | | | | | | | | |
| A9 | $\delta s \beta = 55(RUDDER 10 \beta)$ | 5 | A | | | | | -5 | | 587 | 581 | 565 | 557 | | | 539 | 531 | 516 | | | | | | | | | |
| \downarrow B0 | \downarrow | 5 | A | \downarrow | \downarrow | \downarrow | \downarrow | -228 | \downarrow | 588 | | 566 | | | | 540 | | 517 | | | | | | | | | |
| | | 7 | 13 | 19 | 25 | 31 | 37 | 43 | 49 | 55 | 61 | 67 | 75 | 76 | | | | | | | | | | | | | |
| | | COEFFICIENTS | | | | | | | | | | IDVAR (1) | | IDVAR (2) | | NDV | | | | | | | | | | | |
| α OR β | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SCHEDULES | | | | | | | | | | | | | | | | | | | | | | | | | | | |

NASA-MSFC-MAF

TABLE II. DATA SET/RUN COLLATION SUMMARY (Continued)

TEST : $\Phi A145A(ARC11-118)$

DATE :

DATA SET / RUN NUMBER COLLATION SUMMARY

| DATA SET IDENTIFIER | CONFIGURATION | MACH | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---------------------------------------|----------|---------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-----|-----|-----|------|------|-----|-----|-----|-----|-----|
| | | α | β | δe | δa | δb | δc | δd | δe | δf | δg | δh | δi | δj | Re/Er | 0.6 | 0.8 | 0.9 | 0.95 | 1.05 | 1.1 | 1.2 | 1.3 | 1.4 | |
| R2F001 | $\delta_{SB} = 70$ | C | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 753 | 752 | 748 | 743 | | | | | | |
| B2 | \downarrow | 5 | A | | | | | | | | | | | | | 754 | 751 | 749 | 744 | | | 742 | | | 735 |
| B3 | $\delta_{SB} = 70(RUDDER)$ | 5 | 0 | | | | | | | | | | | | | 756 | | 747 | 746 | | | 741 | | | 736 |
| B4 | $\delta_{SB} = 70(RUDDER IN \beta)$ | 5 | A | \downarrow | \downarrow | \downarrow | \downarrow | \downarrow | \downarrow | \downarrow | \downarrow | \downarrow | \downarrow | \downarrow | \downarrow | 755 | | 750 | 745 | | | 739 | | | 738 |
| | | | | | | | | | | | | | | | | | | | | | 740 | | | 737 | |
| B5 | $\delta_{SB} = 87.2$ | C | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 450 | 460 | 462 | 473 | | | 486 | 489 | | 500 |
| B6 | | G | 2 | | | | | | | | | | | | | 880 | 879 | 878 | 877 | | | 876 | 875 | | 874 |
| B7 | | 0 | C | | | | | | | | | | | | | 457 | 458 | 468 | 479 | | | 506 | | | |
| B8 | | 5 | A | | | | | | | | | | | | | 447 | 459 | 463 | 474 | | | 487 | 488 | | 504 |
| B9 | | 10 | C | | | | | | | | | | | | | 455 | | 469 | 480 | | | 507 | | | 496 |
| C0 | \downarrow | 15 | C | | | | | | | | | | | | | 456 | | 470 | | | | 508 | | | 487 |
| C1 | $\delta_{SB} = 87.2(RUDDER)$ | 0 | 0 | | | | | | | | | | | | | 453 | | 471 | 482 | | | 509 | | | |
| C2 | | 5 | 0 | | | | | | | | | | | | | 452 | | 464 | 475 | | | 490 | | | 505 |
| C3 | | 10 | 0 | | | | | | | | | | | | | 454 | | 472 | 481 | | | 510 | | | 499 |
| C4 | | 15 | 0 | | | | | | | | | | | | | | | | | | | 511 | | | 498 |
| C5 | \downarrow | C | 0 | | | | | | | | | | | | | 451 | | 465 | 476 | | | 491 | | | 501 |
| C6 | $\delta_{SB} = 87.2(RUDDER IN \beta)$ | 5 | A | | | | | | | | | | | | | 448 | | 466 | 477 | | | 492 | | | 502 |
| \downarrow C7 | \downarrow | 5 | A | \downarrow | \downarrow | \downarrow | \downarrow | \downarrow | \downarrow | \downarrow | \downarrow | \downarrow | \downarrow | \downarrow | \downarrow | 449 | | 467 | | | 493 | | | 503 | |

7

13

19

25

31

37

43

49

55

61

67

73

76

α OR β

SCHEDULES

COEFFICIENTS

10VAR (1)

10VAR (2)

NDV

$\times -10^{\circ}SR$ MAX DUE TO TRAVEL LIMITATION

TABLE II. DATA SET/RUN COLLATION SUMMARY (Continued)

[illegible]

تَجَرُّبٌ

[illegible]

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TABLE II. DATA SET/RUN COLLATION SUMMARY (Continued)

[illegible]

TABLE II. DATA SET/RUN COLLATION SUMMARY (Continued)

| TEST: $\Phi A145A(ARC II - 118)$ | | | | | | | | | | DATE: | | | | | | | | | |
|---|---------------|----------|---------|------------|------------|------------|------------|------------|------------|--|-----|-----|-----|------|------|-----|-----|-----|-----|
| DATA SET / RUN NUMBER COLLATION SUMMARY | | | | | | | | | | MACH | | | | | | | | | |
| DATA SET IDENTIFIER | CONFIGURATION | α | β | δe | δa | δb | δc | δd | δe | δf | 0.6 | 0.8 | 0.9 | 0.95 | 1.05 | 1.1 | 1.2 | 1.3 | 1.4 |
| R2F0H3 | | RC | 2 | 0 | 0 | 0 | 25 | 0 | 5 | | | | | | | | 170 | 142 | |
| H4 | | FC | 0 | 0 | 0 | 0 | 25 | 0 | 5 | | 418 | | 98 | | | | | | |
| H5 | | G | 0 | 0 | 0 | 0 | 25 | 0 | 5 | | | | 99 | | | | | | |
| H6 | | G | 0 | 10 | 0 | 0 | 25 | 0 | 5 | | | | 93 | | | | | | |
| H7 | | 5 | 24 | 0 | 0 | 0 | 25 | 0 | 5 | | | | 181 | | | | | | |
| H8 | | 20 | F | 0 | 0 | 0 | 25 | 0 | 5 | | 333 | | | | | | | | |
| H9 | | C | 0 | 20 | 0 | 0 | 25 | 0 | 5 | | | | | | | | | | 423 |
| I0 | | 2 | C | 0 | 0 | 0 | 87.2 | 0 | 5 | | | | | 478 | | | | | |
| I1 | | H | 0 | 0 | 0 | 0 | 87.2 | 0 | 5 | | 483 | | | | | | | | |
| I2 | | 5 | A | 0 | 0 | 0 | 55 | 0 | 5 | | | | | | | | 537 | | |
| I3 | | 5 | 0 | 0 | 0 | 0 | 55 | E | 5 | | | | | | | | | | 519 |
| I4 | | 5 | 0 | 0 | 0 | 0 | 15 | A | 5 | | | | 689 | | | | | | |
| I5 | | I | 0 | 0 | 0 | 0 | 40 | 0 | 5 | | | | | | | | | | 716 |
| I6 | | 5 | 2 | B | 0 | 0 | 25 | 0 | 5 | | | | 818 | | | | | | |
| I7 | | J | 0 | 0 | 0 | 0 | 25 | 0 | 5 | | | | | 898 | | | | | |
| I8 | | FC | 0 | 0 | 0 | 16.3 | 25 | 0 | 5 | | | | | 283 | | | | | |
| I9 | | F | 0 | 0 | 0 | -11.7 | 25 | 0 | 5 | | 0.4 | | | | | | | | |
| I10 | | 0 | A | 0 | 0 | 0 | 25 | 0 | 5 | | 444 | | | | | | | | |
| | | | | | | | | | | | 419 | | | | | | | | |
| | | | | | | | | | | 75 76 67 61 55 49 43 37 31 25 19 13 7 | | | | | | | | | |
| | | | | | | | | | | IDVAR (1) IDVAR (2) NDV | | | | | | | | | |
| α OR β | | | | | | | | | | $\delta R(E) = -15, -10, -5, -2.5, 0$ | | | | | | | | | |
| SCHEDULES | | | | | | | | | | $\beta(LF) = -4, -3, -2, -1, 0$ | | | | | | | | | |
| | | | | | | | | | | $\alpha(I) = 5, 10, 15$ | | | | | | | | | |
| | | | | | | | | | | $\alpha(J) = -5, 0, 2.5, 5, 8, 10, 12$ | | | | | | | | | |

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TABLE II. DATA SET/RUN COLLATION SUMMARY (Continued)

COEFFICIENT SCHEDULES:

First character identified for Force Data

| | | | | | | | | | | |
|---|------------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| R | CN | CA : | CL | CD | CLM | CY | CYN | CBL | ELEVØN | AILRØN |
| A | CHEØ | CHEI | CHFDØ | CHFDI | CHBF | CHSB | AILRØN | ELEVØN | | |
| B | CONF | RN | Q | CAB | CAC | CAF | L/D | XCP/L | P | |
| C | BETA/ALPHA | | ELEVØN | AILRØN | BDFLAP | SPDBRK | RUDDER | ELV-IB | ELV-ØB | AIL-IB AIL-ØB |
| D | ELV-LØ | ELV-LI | ELV-RØ | ELV-RI | DELL | DELR | DRHL | | | |
| E | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |

PRESSURE DATA COMPONENTS:

Fourth Character Identifier for Pressure Dataset

| | |
|---|-------------------------------------|
| C | Inboard Elevon Lower Surface |
| D | Outboard Elevon Lower Surface |
| I | Inboard Flipper Door Upper Surface |
| J | Outboard Flipper Door Upper Surface |
| Q | Inboard Elevon Upper Surface |
| R | Outboard Elevon Upper Surface |
| S | Body Flap Upper Surface |

TABLE II. DATA SET/RUN COLLATION SUMMARY (Concluded)

| | |
|---|-------------------------|
| T | Body Flap Lower Surface |
| W | Rudder Outer Surface |
| X | Rudder Inner Surface |
| 6 | Orbiter Base |
| 8 | Sting Lower Surface |
| 9 | Sting Upper Surface |

Note: Eleven cove (flipper door lower surface) pressure coefficient data is presented in force format (schedule E above).

TABLE III. WING AND ELEVEN PRESSURE TAP LOCATIONS

| Spanwise Location - η | Upper Surface XW/cw | | | | | Upper Surface XE/CFL | | | | | | |
|----------------------------|---------------------|-------|-------|-------|-----------------------|----------------------|-------|-------|-------|-------|-------|-------|
| | 0.150 | 0.250 | 0.400 | 0.550 | X ₀ 1359.6 | -0.100 | 0.100 | 0.200 | 0.400 | 0.600 | 0.800 | 1.000 |
| Inboard Edge | | | | | | | | | 101 | | 102 | |
| 0.340 | | | | | 15 | | | 103 | 104 | 105 | 106 | 107 |
| 0.427 | | | | | 25 | | | 108 | 109 | 110 | 111 | 112 |
| 0.534 | 31 | 32 | 33 | 34 | 35 | | | 113 | 114 | 115 | 116 | 117 |
| 0.615 | | | | | 45 | | | 118 | 119 | 120 | 121 | 122 |
| Inboard Gap Edge | | | | | | | | | 123 | | 124 | |
| Outboard Gap Edge | | | | | | | | | 125 | | 126 | |
| 0.715 | | | | | 55 | | | 127 | 128 | 129 | 130 | 131 |
| 0.800 | 61 | 62 | 63 | 64 | 65 | | | 132 | 133 | 134 | 135 | 136 |
| 0.887 | | | | | 75 | | | 137 | 138 | 139 | 140 | 141 |
| 0.960 | | | | | 85 | | | 142 | 143 | 144 | 145 | 146 |
| Outboard Edge | | | | | | | | | 147 | | 148 | 149 |
| | Lower Surface XW/CW | | | | | Lower Surface XE/CFL | | | | | | |
| Inboard Edge | | | | | | | | | 150 | | 151 | |
| 0.340 | | | | | | 20 | 152 | 153 | 154 | 155 | 156 | |
| 0.427 | | | | | | 30 | 157 | 158 | 159 | 160 | 161 | |
| 0.534 | 36 | 37 | 38 | 39 | | 40 | 162 | 163 | 164 | 165 | 166 | |
| 0.615 | | | | | | 50 | 167 | 168 | 169 | 170 | 171 | |
| Inboard Gap Edge | | | | | | | | | 172 | | 173 | |
| Outboard Gap Edge | | | | | | | | | 174 | | 175 | |
| 0.715 | | | | | | 60 | 176 | 177 | 178 | 179 | 180 | |
| 0.800 | 66 | 67 | 68 | 69 | | 70 | 181 | 182 | 183 | 184 | 185 | |
| 0.887 | | | | | | 80 | 186 | 187 | 188 | 189 | 190 | |
| 0.960 | | | | | | 90 | 191 | 192 | 193 | 194 | 195 | |
| Outboard Edge | | | | | | | | | 196 | | 197 | |

TABLE IV. FLIPPER DOOR PRESSURE TAP LOCATIONS

| SPANWISE LOCATION WING η | UPPER SURFACE X_{FD}/C_{FD} | | |
|----------------------------------|-------------------------------|------|------|
| | 0.10 | 0.50 | 0.90 |
| 0.340 | 201 | 202 | 203 |
| 0.427 | 204 | 205 | 206 |
| 0.534 | 207 | 208 | 209 |
| 0.615 | 210 | 211 | 212 |
| 0.715 | 213 | 214 | 215 |
| 0.800 | 216 | 217 | 218 |
| 0.887 | 219 | 220 | 221 |
| 0.960 | 222 | 223 | 224 |
| INTERNAL CAVITY X_{FD}/C_{FD} | | | |
| | 0.10 | 0.50 | 0.90 |
| 0.340 | | 225 | |
| 0.427 | | 228 | |
| 0.534 | | 231 | |
| 0.615 | | 234 | |
| 0.715 | | 237 | |
| 0.800 | | 240 | |
| 0.887 | | 243 | |
| 0.960 | | 246 | |

TABLE V. BODY FLAP PRESSURE TAP LOCATIONS

| SPANWISE LOCATION $\eta = y/b$ at Hingeline | UPPER SURFACE X_{BF}/C_{BF} | | | |
|--|-------------------------------|------|------|------|
| | -0.20 | 0.20 | 0.60 | 1.00 |
| 0.10 (L.H. Side) | | 301 | 302 | 303 |
| 0.20 | | | 304 | |
| 0.35 | | | | |
| 0.50 ($Y_O = 0$) | | 305 | 306 | 307 |
| 0.80 (R.H. Side) | | | 308 | |
| LOWER SURFACE X_{BF}/C_{BF} | | | | |
| 0.10 (L.H. Side) | 309 | 314 | 315 | 316 |
| 0.20 | 310 | 317 | 318 | 319 |
| 0.35 | 311 | 320 | 321 | 322 |
| 0.50 ($Y_O = 0$) | 312 | 323 | 324 | 325 |
| 0.80 (R.H. Side) | 313 | 326 | 327 | 328 |

TABLE VI. SPEED BRAKE PRESSURE TAP LOCATIONS

| SPANWISE LOCATION $\eta = y/b$ at HINGELINE | OUTER SURFACE (L.H.) X_R/C_R | | | | |
|--|---------------------------------|------|------|------|------|
| | -0.20 | 0.20 | 0.60 | 0.80 | 1.00 |
| 0.10 (BOTTOM) | 401 | 410 | 411 | | |
| 0.20 | 402 | 412 | 413 | | 414 |
| 0.30 | 403 | 415 | 416 | | 417 |
| 0.40 | 404 | 418 | 419 | | 420 |
| 0.50 | 405 | 421 | 422 | | 423 |
| 0.60 | 406 | 424 | 425 | | 426 |
| 0.70 | 407 | 427 | 428 | | 429 |
| 0.80 | 408 | 430 | 431 | | 432 |
| 0.90 | 409 | 433 | 434 | | 435 |
| 1.03 (TOP) | | | | 436 | |
| | INSIDE SURFACE (L.H.) X_R/C_R | | | | |
| 0.10 (BOTTOM) | | 437 | 438 | | |
| 0.20 | | 439 | 440 | | 441 |
| 0.30 | | | | | |
| 0.40 | | 442 | 443 | | 444 |
| 0.50 | | 445 | 446 | | 447 |
| 0.60 | | | | | |
| 0.70 | | 448 | 449 | | 450 |
| 0.80 | | | | | |
| 0.90 | | 451 | 452 | | 453 |
| 1.03 (TOP) | | | | 454 | |

TABLE VII. AIR DATA PROBE AND STING
PRESSURE TAP LOCATIONS

AIR DATA PROBE PRESSURES

| | |
|---|----|
| L.H. SIDE AT X_0 291.67, Z_0 320.46 | 12 |
| R.H. SIDE AT X_0 291.67, Z_0 320.46 | 13 |

STING PRESSURES

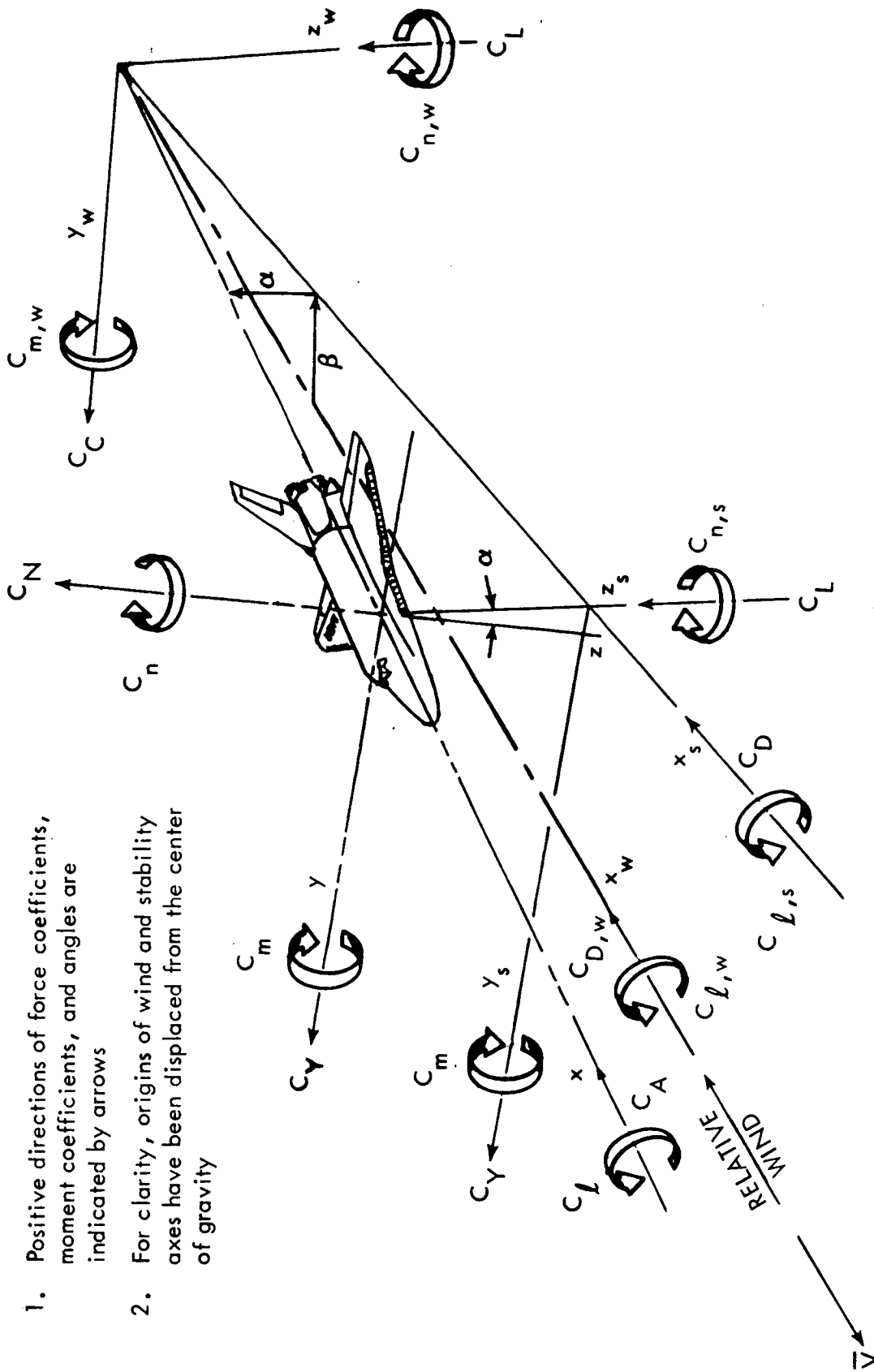
| DISTANCE FROM MODEL BASE STATION - INCHES | UPPER STING | LOWER STING |
|--|----------------|----------------|
| 0 | 501 | 511 |
| 2 | 502 | 512 |
| 4 | 503 | 513 |
| 6 | 504 | 514 |
| 8 | 505 | 515 |
| 10 | 506 | 516 |
| 12 | 507 | 517 |
| 14 | 508 | 518 |
| 16 | 509 | 519 |
| 18 | 510 | 520 |

TABLE VIII. COEFFICIENT TOLERANCES FOR THE 4-INCH TASK MKIVA BALANCE

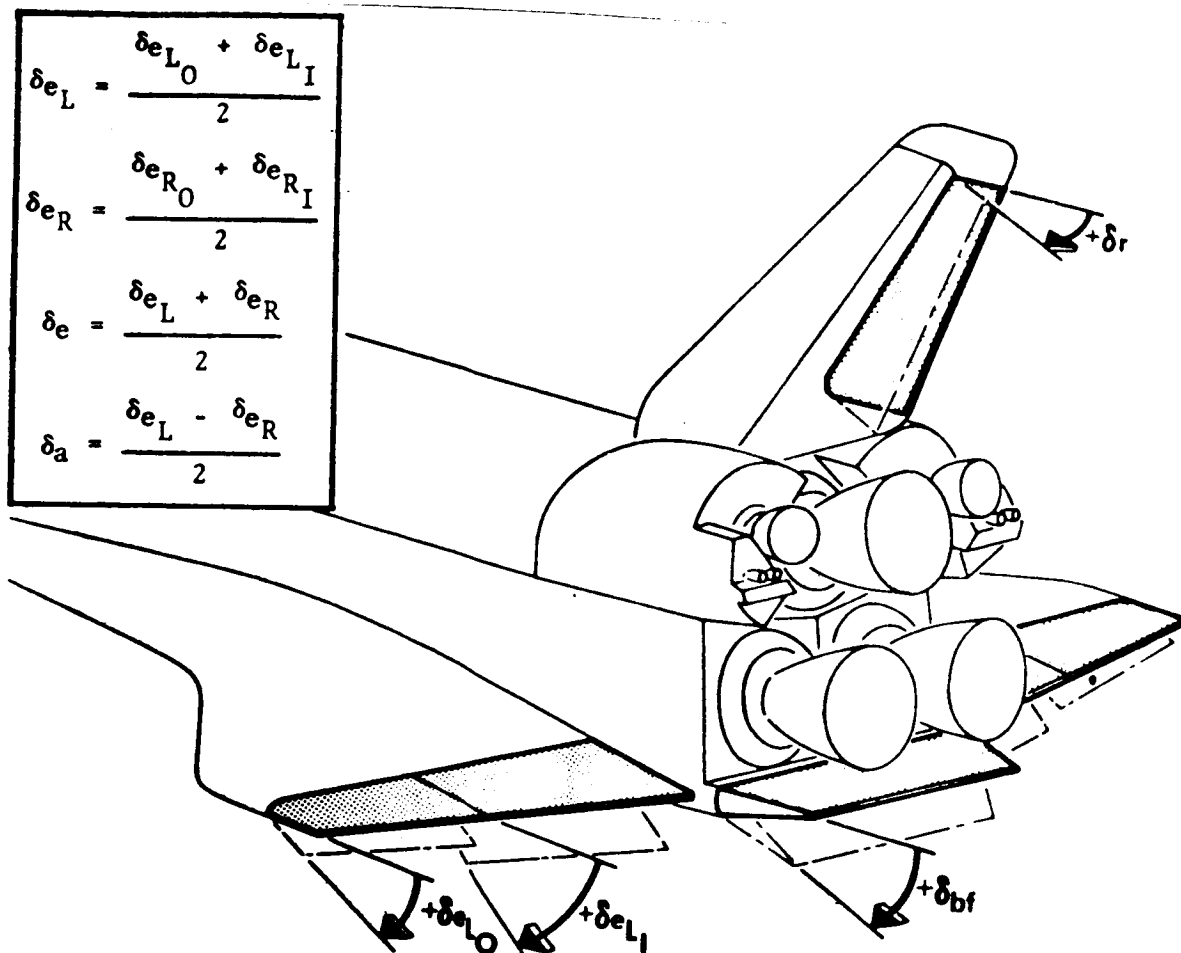
| <u>COEFFICIENT</u> | <u>MACH NUMBER</u> | | |
|--------------------|--------------------|------------|------------|
| | <u>.6</u> | <u>1.2</u> | <u>3.5</u> |
| C _N | ±0.009600 | ±0.006100 | ±0.017100 |
| C _m | ±0.002800 | ±0.001700 | ±0.005000 |
| C _y | ±0.004800 | ±0.003000 | ±0.008500 |
| C _n | ±0.000580 | ±0.003700 | ±0.001050 |
| C _A | ±0.001100 | ±0.000700 | ±0.002000 |
| C _ℓ | ±0.000385 | ±0.000240 | ±0.000690 |

Notes:

1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrows
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

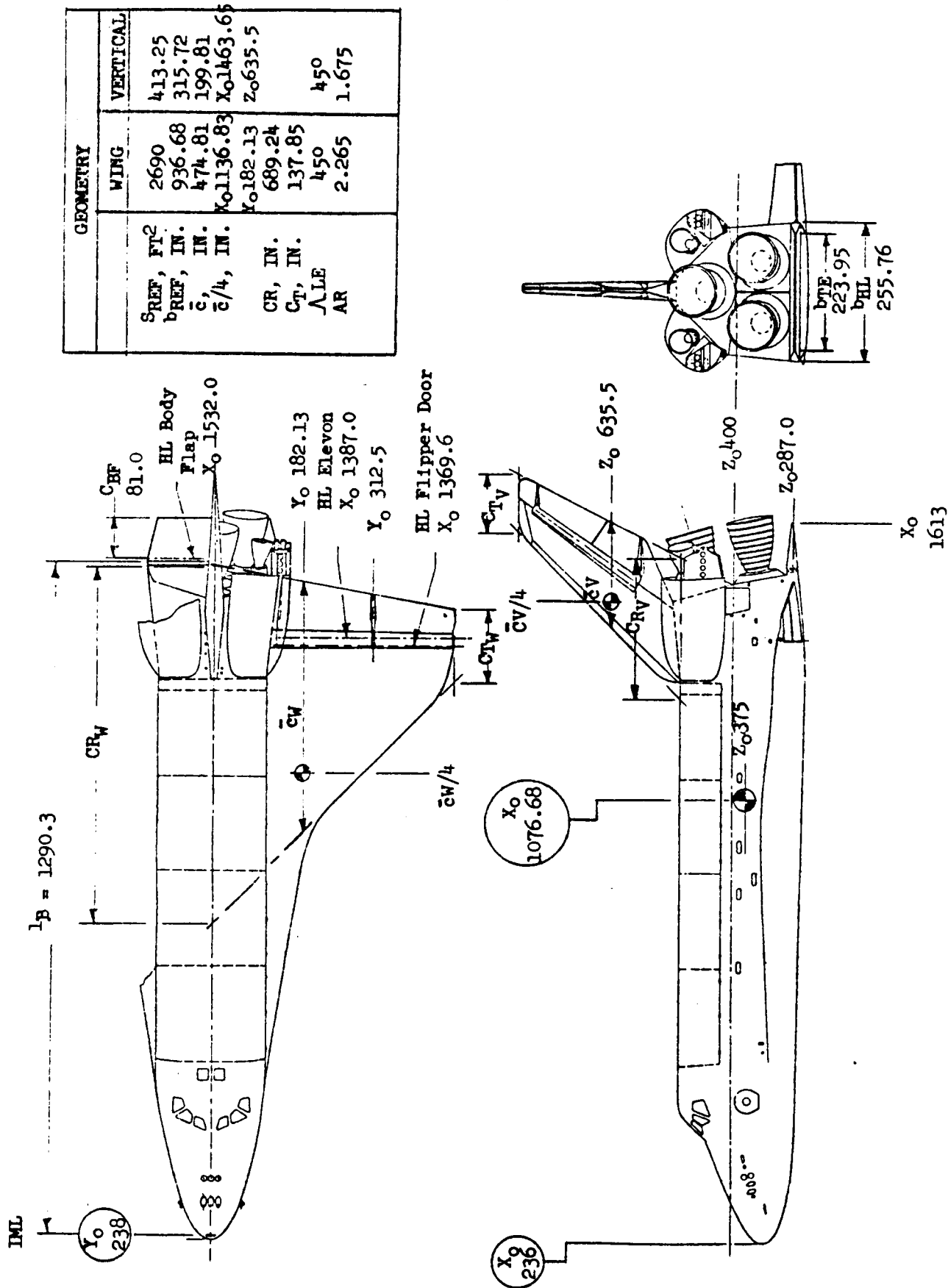


a. Axes Systems Definition
Figure 1. Axes systems and sign convention.

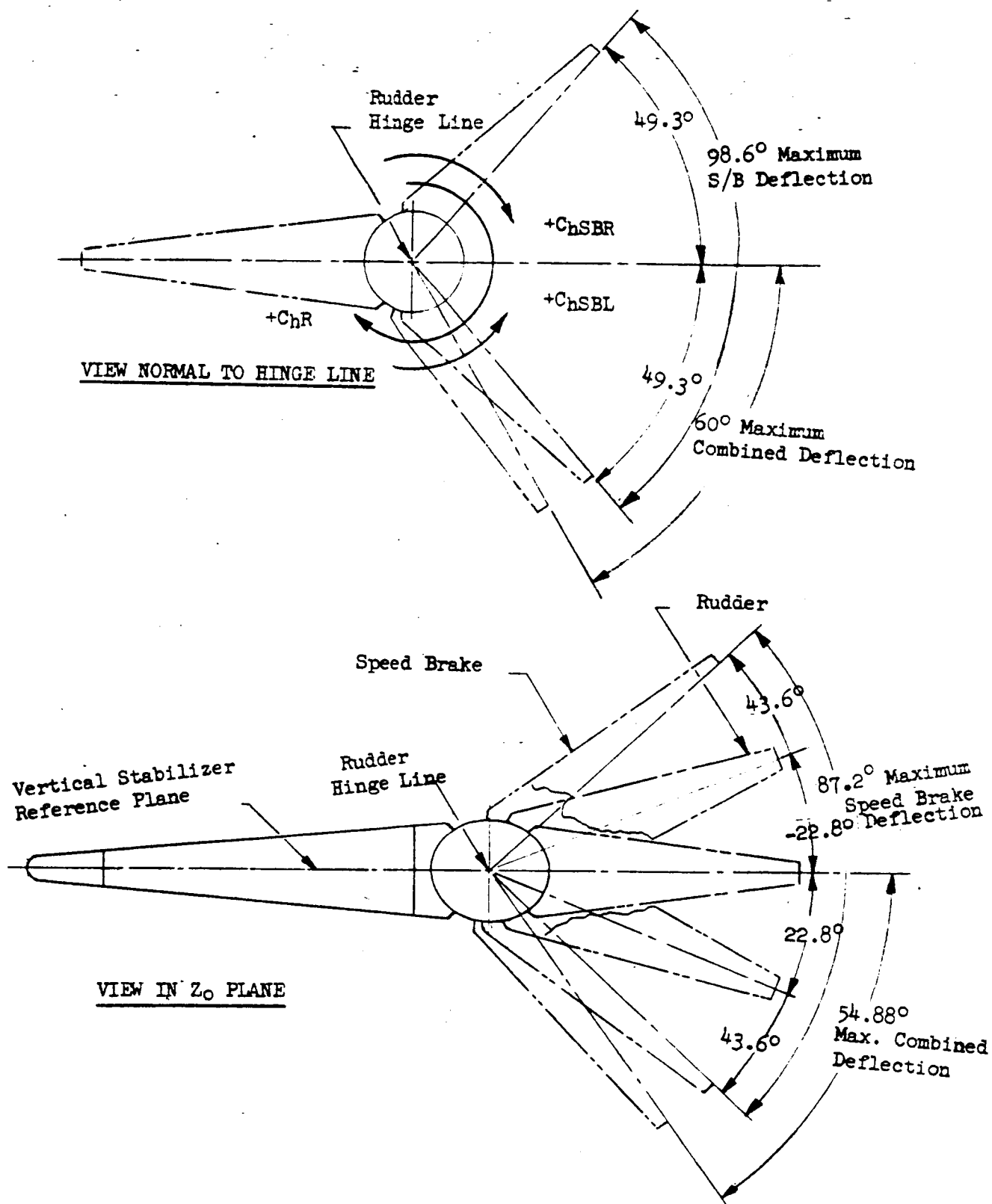


| Positive Deflection of | Angle | Aero Forces and Moments | Hinge Moment |
|--------------------------|-----------------------|-------------------------|----------------|
| Rudder, δr | $+\beta$, $-\psi$ | $+C_Y$, $-C_N$ | $-C_{h_r}$ |
| Elevon, δe | $-\alpha$, $-\theta$ | $-C_m$ | $-C_{h_e}$ |
| Right, δe_R | $-\phi$ | $-C_l$ | $-C_{h_{e_R}}$ |
| Left, δe_L | $+\phi$ | $+C_l$ | $-C_{h_{e_L}}$ |
| Aileron, δa | $+\phi$ | $+C_l$ | |
| Body Flap, δ_{bf} | $-\alpha$, $-\theta$ | $-C_m$ | $-C_{h_{bf}}$ |

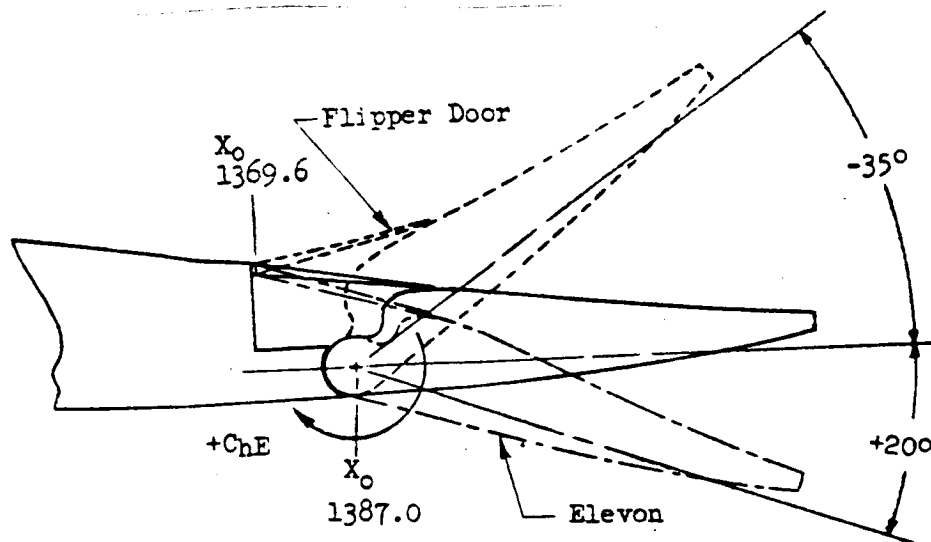
b. Control Surface Deflections
Figure 1. Continued.



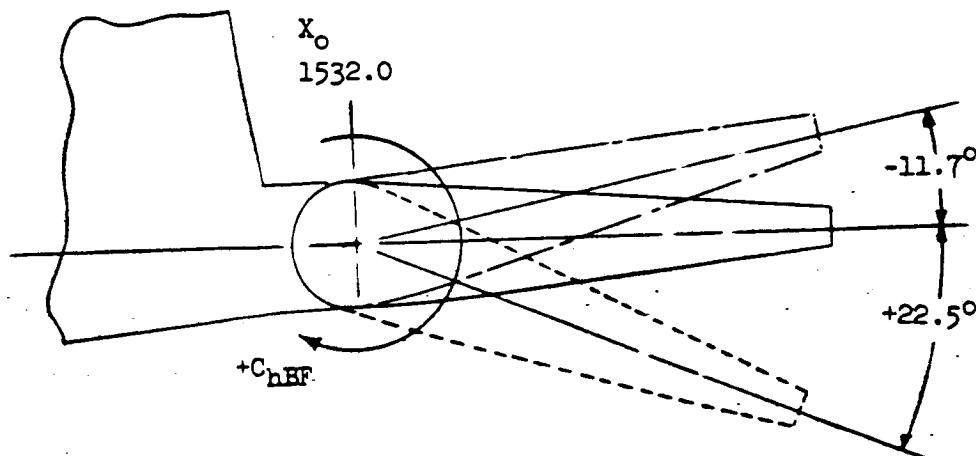
c. Orbiter Reference Dimensions
Figure 1. Continued.



d. Rudder/Speed Brake Deflections
Figure 1. Continued.

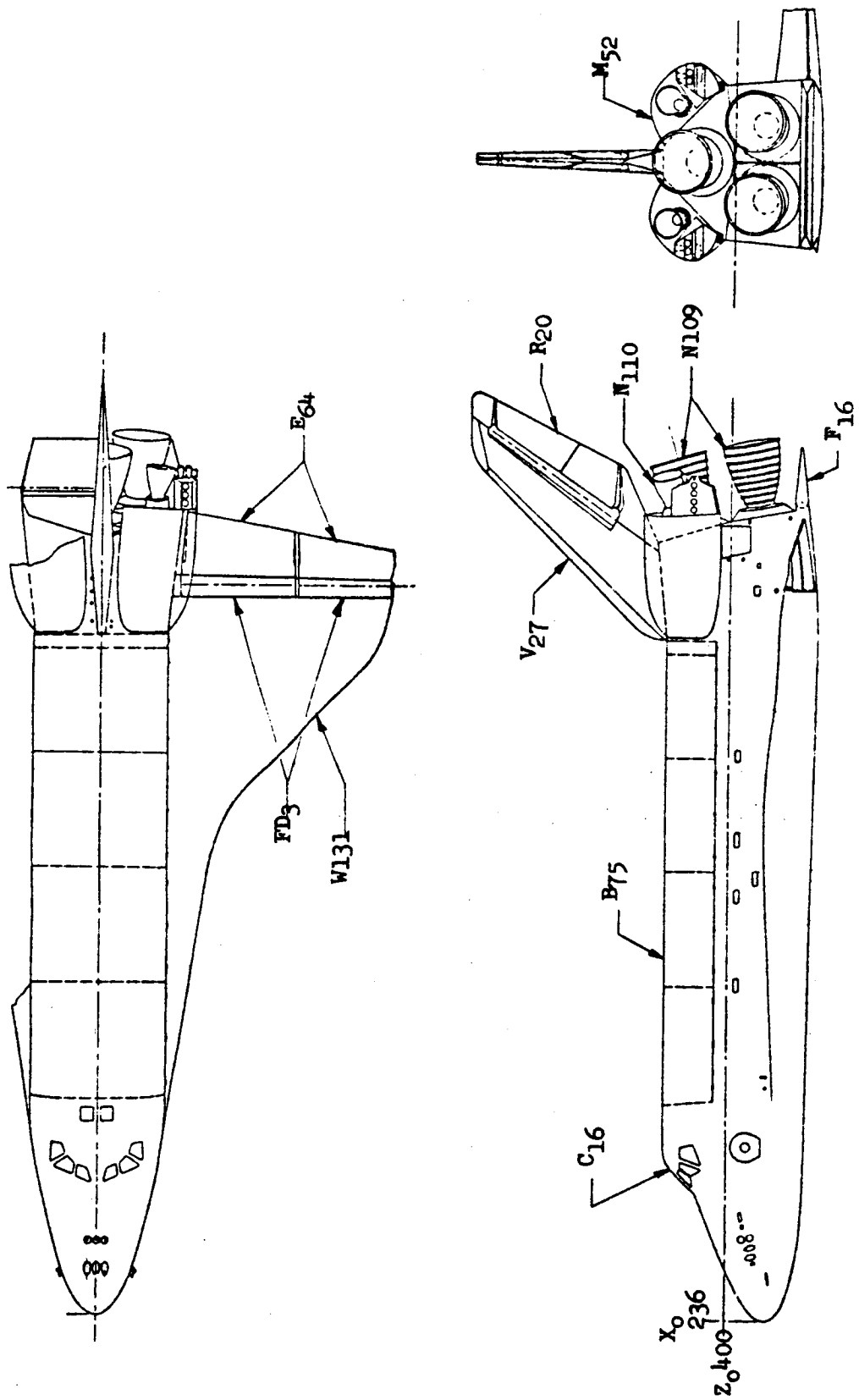


ELEVON DEFLECTIONS

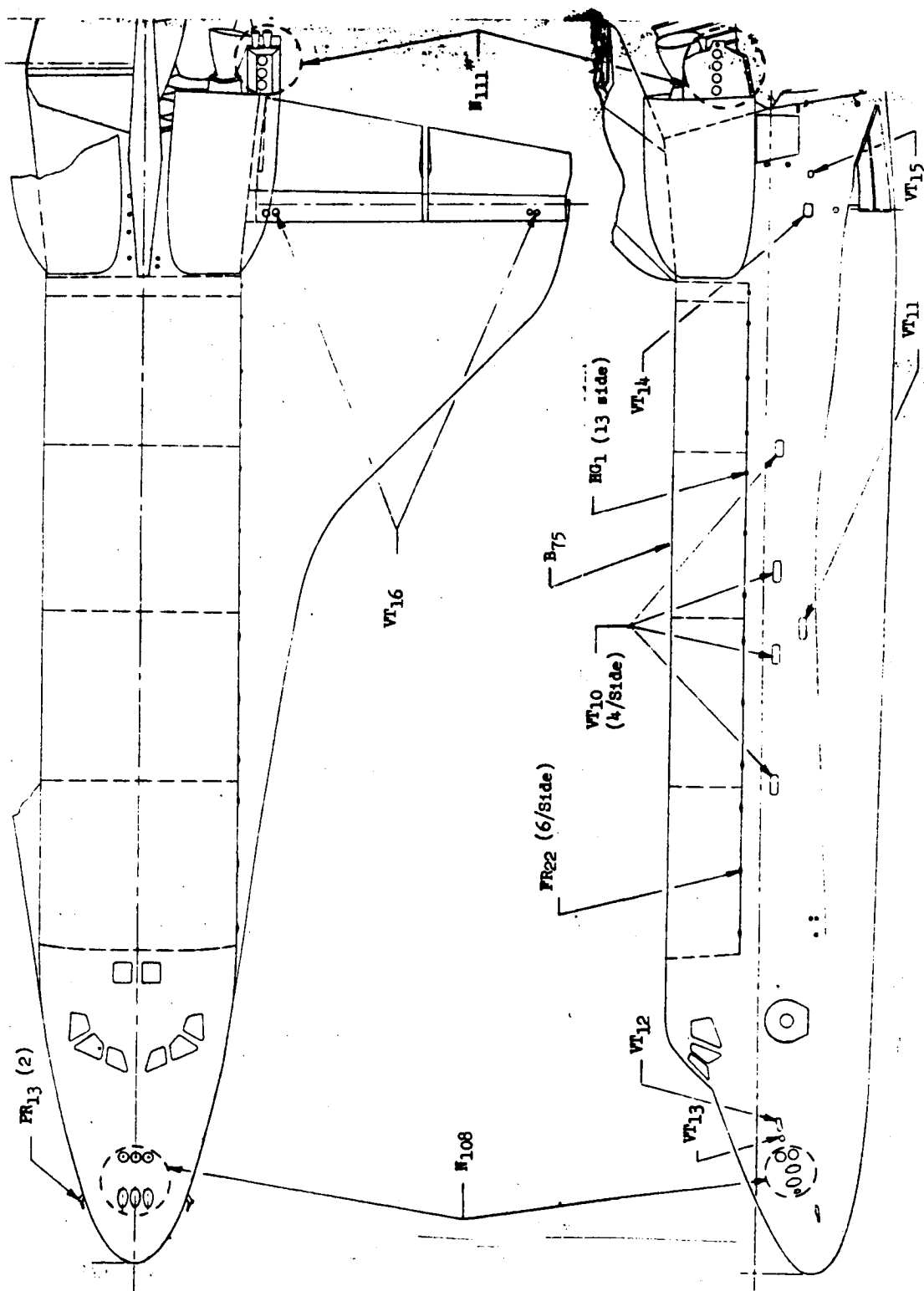


BODY FLAP DEFLECTIONS

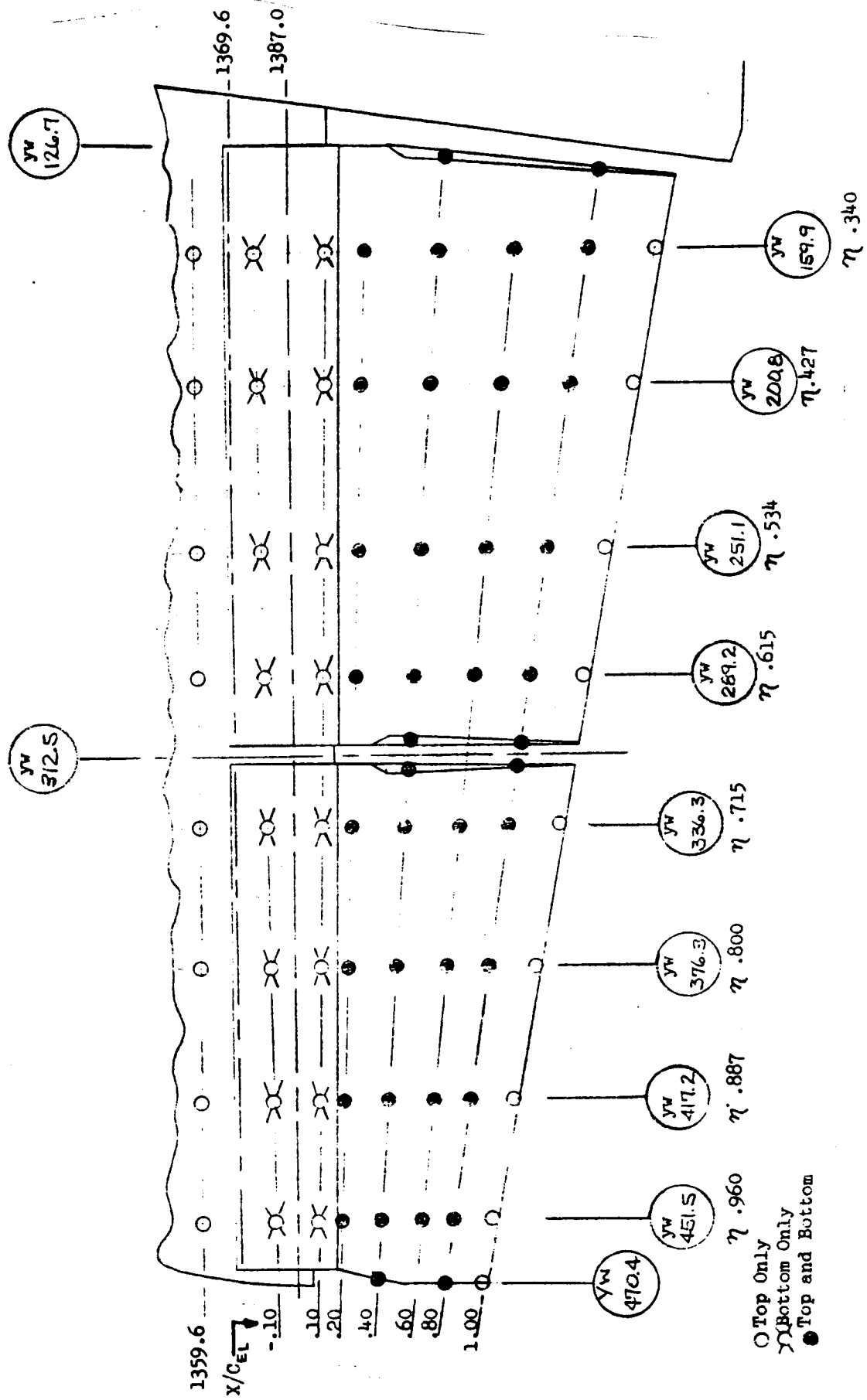
e. Elevon and Body Flap Deflections
Figure 1. Concluded.



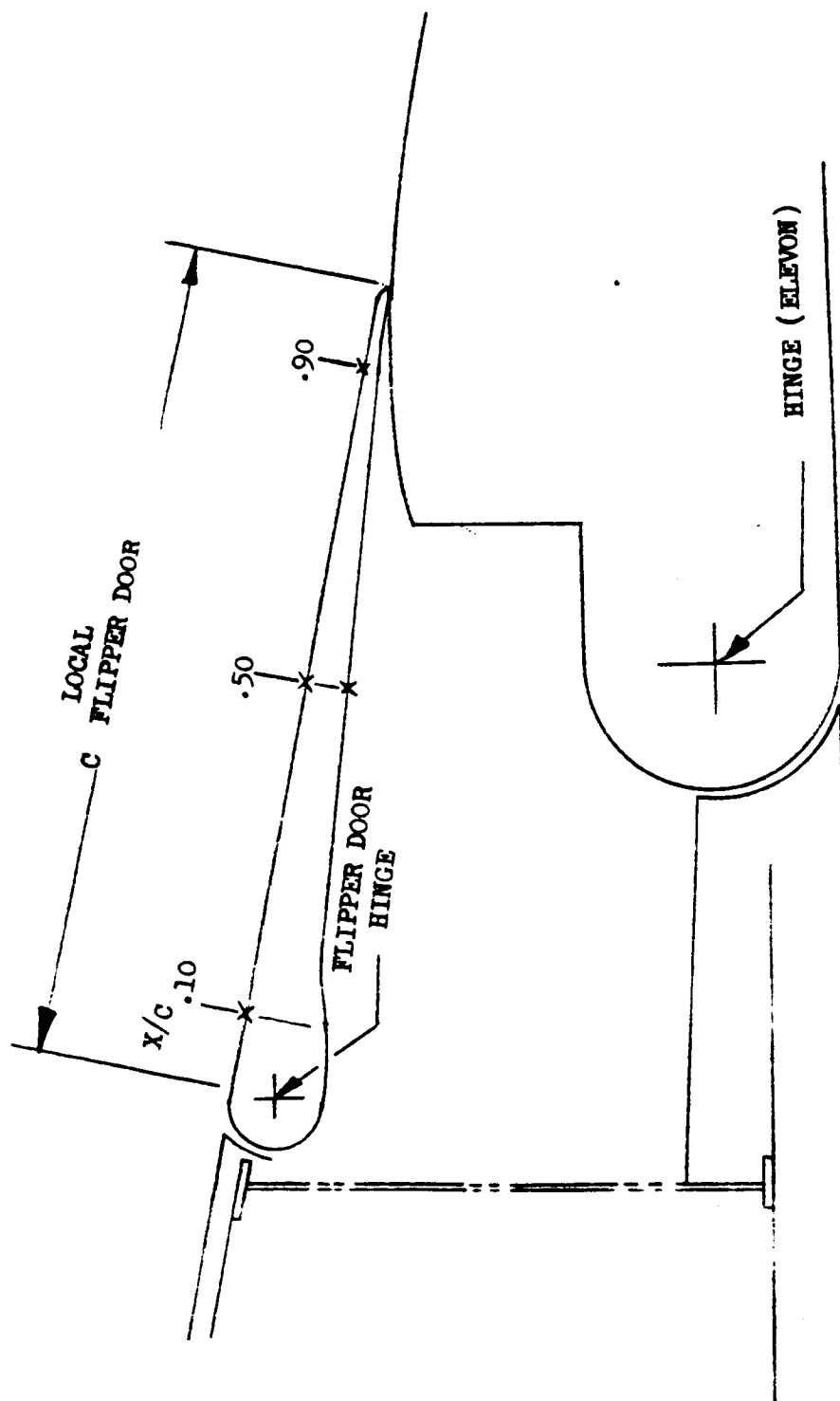
a. Orbiter Configuration
Figure 2. Model sketches.



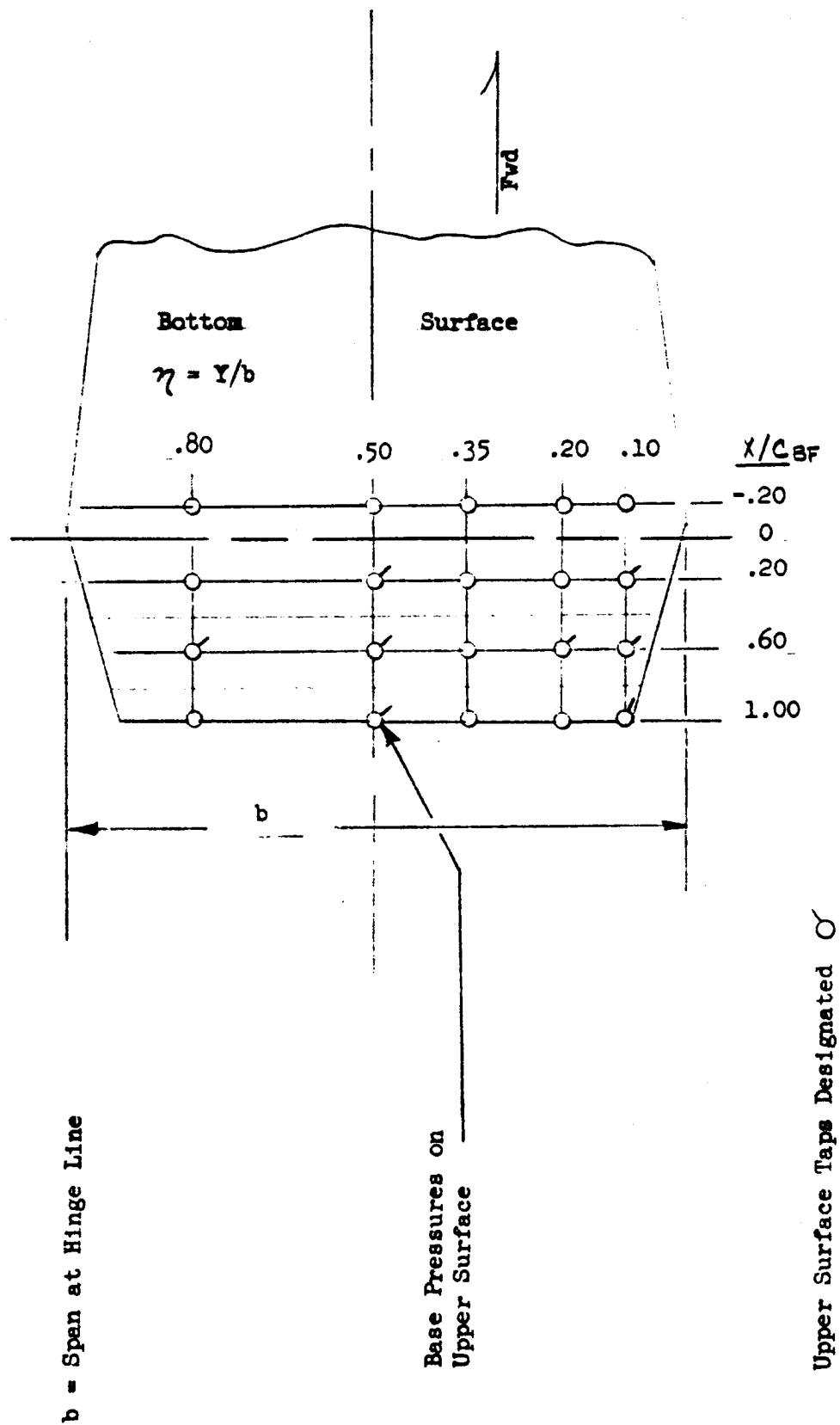
b. Protuberances and Penetrations
 Figure 2. Continued.



c. Elevon and Wing Pressure Tap Locations
Figure 2. Continued.

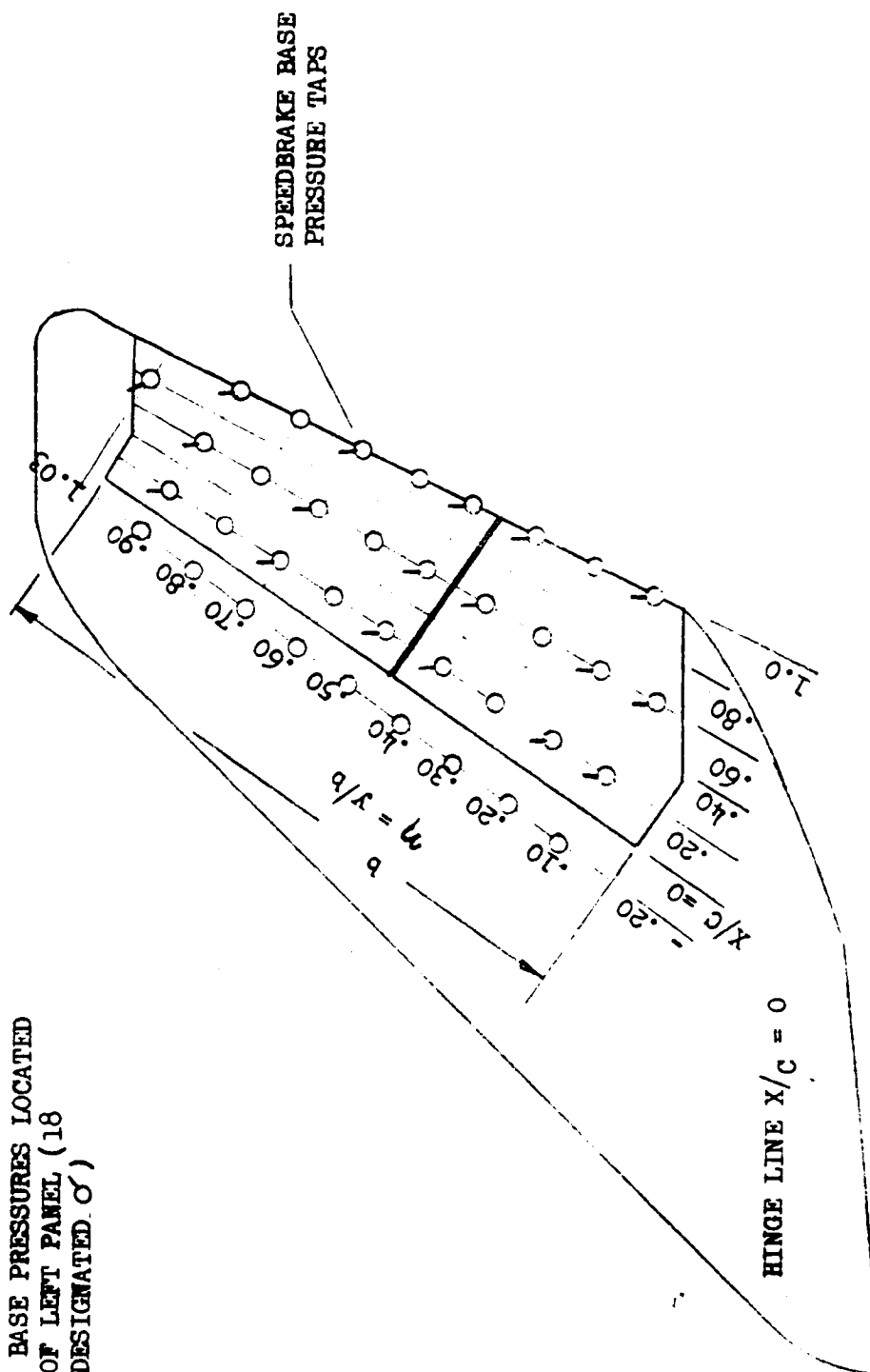


d. Flipper Door and Elevon Cavity Pressure Tap Locations
Figure 2. Continued.

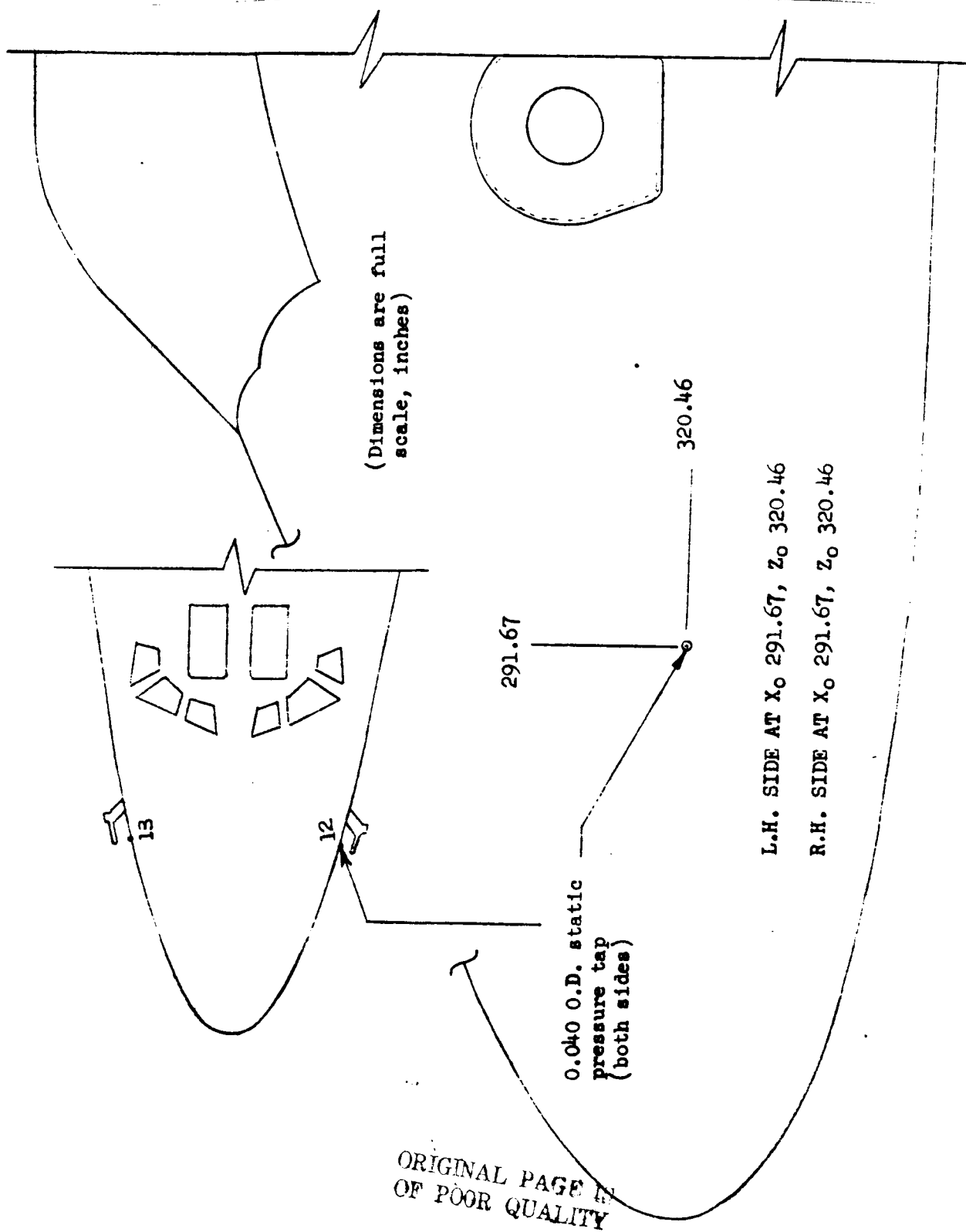


e. Body Flap Pressure Tap Locations
Figure 2. Continued.

- ALL MEASUREMENTS LEFT SIDE ONLY.
- TAPS AT T.E. LOCATED AS CLOSE TO T.E. AS POSSIBLE.
- SPEEDBRAKE BASE PRESSURES LOCATED ON INSIDE OF LEFT PANEL (18 LOCATIONS DESIGNATED σ')



f. Rudder/Speed Brake Surface Pressure Tap Locations
Figure 2. Continued.



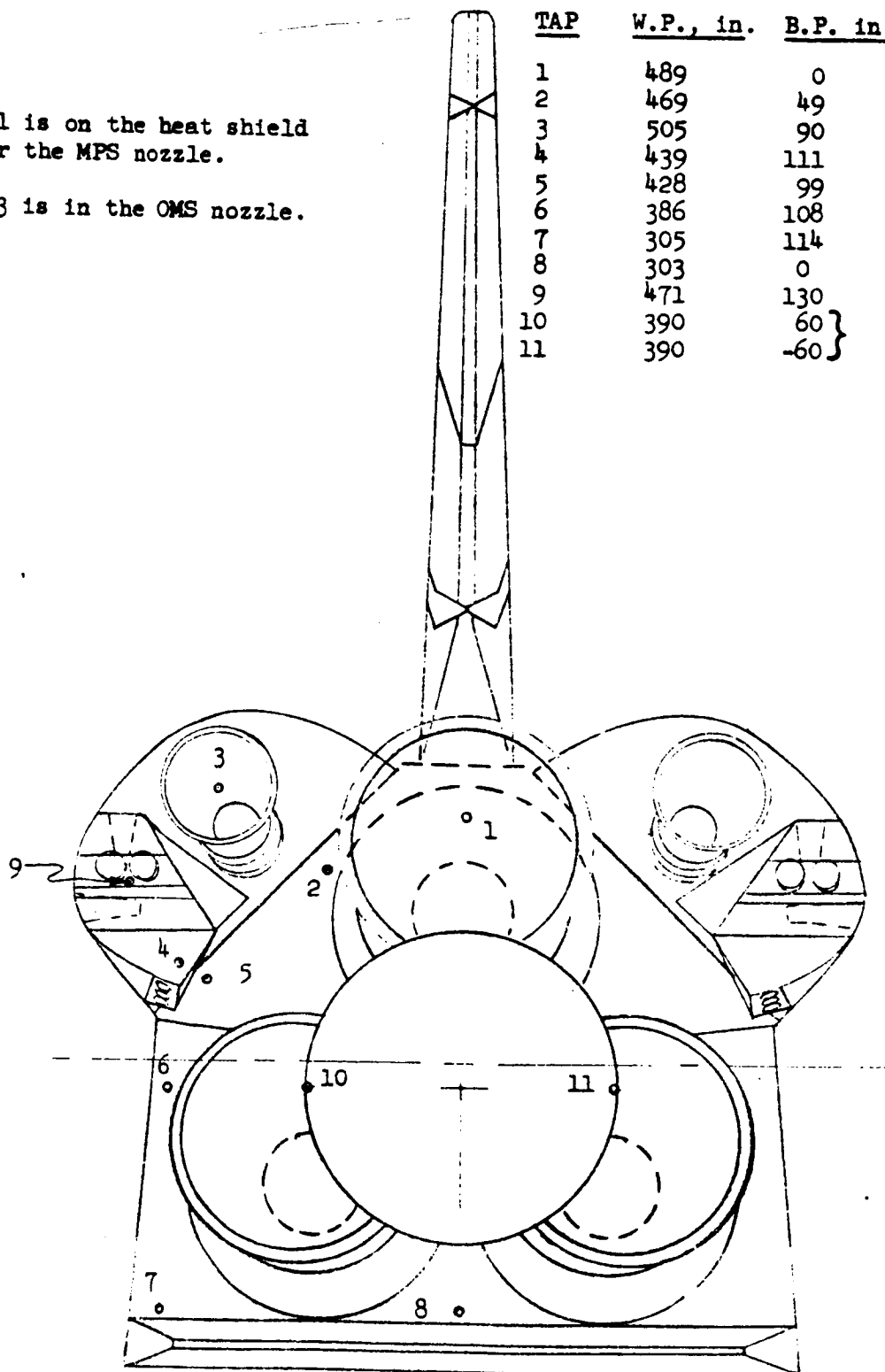
8. Air Data Probe Pressure Tap Locations
Figure 2. Continued.

Tap 1 is on the heat shield
under the MPS nozzle.

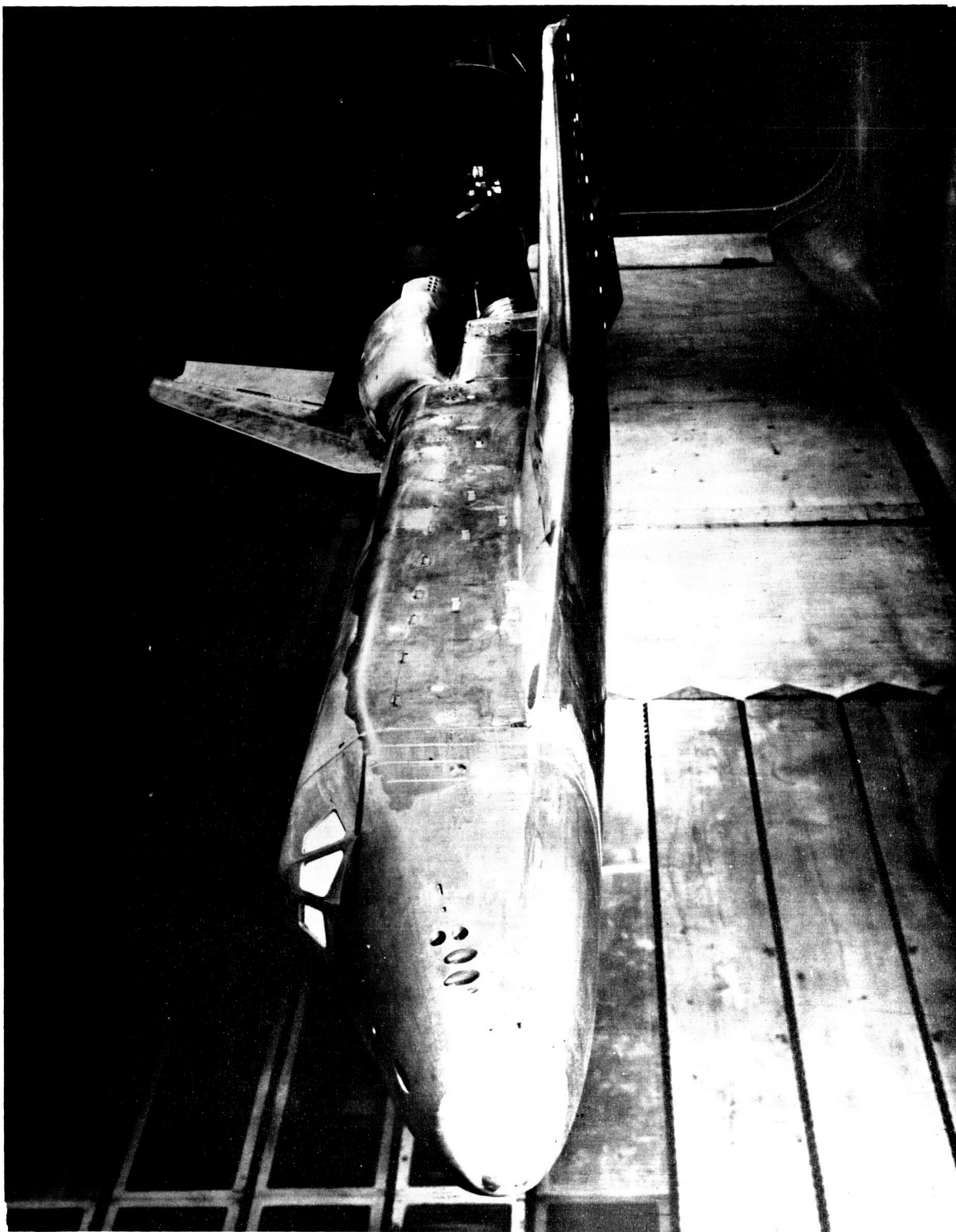
Tap 3 is in the OMS nozzle.

| <u>TAP</u> | <u>W.P., in.</u> | <u>B.P. in.</u> | <u>Area, ft²</u> |
|------------|------------------|-----------------|-----------------------------|
| 1 | 489 | 0 | 23.48 |
| 2 | 469 | 49 | 32.96 |
| 3 | 505 | 90 | 18.68 |
| 4 | 439 | 111 | 22.12 |
| 5 | 428 | 99 | 30.88 |
| 6 | 386 | 108 | 45.84 |
| 7 | 305 | 114 | 71.92 |
| 8 | 303 | 0 | 34.40 |
| 9 | 471 | 130 | 78.00 |
| 10 | 390 | 60 | 78.52 |
| 11 | 390 | -60 | |

436.80



h. Base Pressure Tap Locations
Figure 2. Concluded.



a. Model Installed in 11 x 11 Foot Test Section (OAL45A)
Figure 3. Model installation photographs.



b. Model Installed in 9 x 7 Foot Test Section with Base Detail (OA145B)
Figure 3. Concluded.

APPENDIX

TABULATED SOURCE DATA

Tabulations of plotted data are available on request from Data Management Services.

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DATE 10 MAR 80

OAI145 TABULATED FORCE DATA

PAGE 1001

AMES 118-1-11 OAI145A 01

(C2F041) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

ALPHA =
 AIRLON =
 SPOBRK =
 RN/L =

ELEVON = 5.000
 BDFLAP = .000
 RUDDER = 5.000

PARAMETRIC DATA

RUN NO. 191/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AIRLON | BDFLAP | SPOBRK | RUDDER | ELV-OB | AIRL-OB | AIRL-OB |
|------|----------|---------|---------|---------|---------|----------|--------|---------|---------|---------|
| .598 | -6.057 | 5.41600 | 4.90230 | -.01310 | -.07040 | 25.00000 | .00000 | 4.92440 | -.04970 | .02350 |
| .598 | -1.944 | 5.38940 | 4.90230 | -.01310 | -.07040 | 25.00000 | .00000 | 4.92440 | -.04970 | .02350 |
| .597 | -.890 | 5.25460 | 4.90480 | -.01070 | -.08040 | 25.00000 | .00000 | 4.92930 | -.04970 | .02350 |
| .598 | -.082 | 5.14640 | 4.90230 | -.01310 | -.08040 | 25.00000 | .00000 | 4.92440 | -.04970 | .02350 |
| .598 | .541 | 5.15450 | 4.90000 | -.01080 | -.07040 | 25.00000 | .00000 | 4.92440 | -.04510 | .02350 |
| .598 | 1.086 | 5.18570 | 4.90000 | -.01080 | -.07040 | 25.00000 | .00000 | 4.92440 | -.04510 | .02350 |
| .598 | 2.159 | 5.18190 | 4.90190 | -.01850 | -.08040 | 25.00000 | .00000 | 4.92940 | -.05560 | .01850 |
| .598 | 3.228 | 5.16430 | 4.90250 | -.01330 | -.08040 | 25.00000 | .00000 | 4.92940 | -.04510 | .01850 |
| .598 | 4.277 | 5.14220 | 4.90480 | -.01070 | -.08040 | 25.00000 | .00000 | 4.92930 | -.04970 | .02350 |
| .598 | 6.353 | 5.10310 | 4.90480 | -.01070 | -.07040 | 25.00000 | .00000 | 4.92930 | -.04970 | .02350 |
| .598 | GRADIENT | -.02913 | .00014 | -.00015 | -.00116 | .00000 | .00000 | .00074 | .00004 | -.00034 |

RUN NO. 119/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AIRLON | BDFLAP | SPOBRK | RUDDER | ELV-OB | AIRL-OB | AIRL-OB |
|------|----------|---------|---------|---------|---------|----------|---------|---------|---------|---------|
| .799 | -6.074 | 4.78670 | 4.86960 | .02350 | -.06030 | 25.00000 | .11930 | 4.86480 | -.05560 | .10250 |
| .798 | -1.958 | 5.15260 | 4.86720 | .02590 | -.06030 | 25.00000 | .06820 | 4.85990 | -.05560 | .10740 |
| .798 | -.918 | 5.09070 | 4.87230 | .02080 | -.07040 | 25.00000 | .05970 | 4.87980 | -.06090 | .10250 |
| .799 | .155 | 4.81760 | 4.87480 | .01830 | -.06030 | 25.00000 | .04260 | 4.86980 | -.06090 | .09750 |
| .798 | .647 | 5.07990 | 4.86960 | .02350 | -.06030 | 25.00000 | .04260 | 4.86480 | -.05560 | .10250 |
| .799 | 1.161 | 5.05320 | 4.86720 | .02590 | -.07040 | 25.00000 | .03410 | 4.85990 | -.05560 | .10740 |
| .799 | 2.246 | 5.02890 | 4.87520 | .02370 | -.07040 | 25.00000 | .02560 | 4.86480 | -.05510 | .10250 |
| .798 | 3.308 | 5.00740 | 4.87770 | .02120 | -.07040 | 25.00000 | .00850 | 4.86980 | -.05510 | .09750 |
| .798 | 4.352 | 4.98520 | 4.87520 | .02370 | -.06030 | 25.00000 | .00000 | 4.86480 | -.05510 | .10250 |
| .798 | 6.427 | 4.94280 | 4.87770 | .02120 | -.06030 | 25.00000 | -.03350 | 4.86980 | -.05510 | .09750 |
| .797 | GRADIENT | -.01643 | .00124 | -.00003 | -.00042 | .00000 | -.01103 | .00067 | .00061 | -.00067 |

RUN NO. 177/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AIRLON | BDFLAP | SPOBRK | RUDDER | ELV-OB | AIRL-OB | AIRL-OB |
|------|----------|---------|---------|---------|---------|----------|---------|---------|---------|---------|
| .901 | -6.104 | 5.42400 | 4.89740 | -.00820 | -.07040 | 25.00000 | .00000 | 4.91450 | -.04970 | .03340 |
| .902 | -1.921 | 5.40880 | 4.89740 | -.00820 | -.07040 | 25.00000 | -.01670 | 4.91450 | -.04970 | .03340 |
| .900 | -.862 | 5.35330 | 4.89740 | -.00820 | -.08040 | 25.00000 | -.02510 | 4.91450 | -.04970 | .03340 |
| .898 | .038 | 5.32010 | 4.89490 | -.00570 | -.08040 | 25.00000 | -.03350 | 4.90960 | -.04970 | .03830 |
| .901 | .450 | 5.48690 | 4.89250 | -.00810 | -.08040 | 25.00000 | -.04180 | 4.90470 | -.04970 | .03350 |
| .900 | .960 | 5.55180 | 4.89490 | -.00570 | -.07040 | 25.00000 | -.05020 | 4.90960 | -.04970 | .03830 |
| .900 | 2.063 | 5.60550 | 4.89250 | -.00810 | -.08040 | 25.00000 | -.05860 | 4.90470 | -.04970 | .03350 |
| .899 | 3.136 | 5.60550 | 4.89250 | -.00810 | -.08040 | 25.00000 | -.07530 | 4.90470 | -.04970 | .03350 |
| .899 | 4.187 | 5.57890 | 4.89250 | -.00810 | -.08040 | 25.00000 | -.10040 | 4.90470 | -.04970 | .03350 |
| .899 | 6.259 | 5.56180 | 4.89740 | -.00820 | -.08040 | 25.00000 | -.13390 | 4.91450 | -.04970 | .03340 |
| .899 | GRADIENT | .04496 | -.00089 | -.00007 | -.00002 | .00000 | -.01334 | -.00179 | -.00000 | -.00015 |

(C2F041) (18 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = 5.000
 AILRON = .000 BOFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 130/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | AIL-1B | AIL-0B |
|------|----------|---------|---------|--------|---------|----------|---------|---------|---------|--------|
| .951 | -6.090 | 4.84450 | 4.88760 | .00640 | -.08040 | 25.00000 | .01700 | 4.87560 | -.04510 | .08800 |
| .950 | -1.912 | 5.14970 | 4.88720 | .00110 | -.08040 | 25.00000 | .00850 | 4.90450 | -.05100 | .05310 |
| .952 | -.845 | 5.12910 | 4.88700 | .00120 | -.08040 | 25.00000 | .00850 | 4.87440 | -.05580 | .05600 |
| .951 | .073 | 5.03890 | 4.87980 | .00850 | -.08040 | 25.00000 | .00000 | 4.86980 | -.05100 | .06790 |
| .952 | .484 | 5.22360 | 4.87990 | .00830 | -.08040 | 25.00000 | .00000 | 4.89460 | -.04630 | .06300 |
| .951 | 1.080 | 5.25260 | 4.88450 | .00370 | -.07040 | 25.00000 | .00000 | 4.87440 | -.05560 | .06300 |
| .951 | 2.125 | 5.24070 | 4.87980 | .00850 | -.08040 | 25.00000 | .00000 | 4.86980 | -.05100 | .06790 |
| .951 | 3.188 | 5.20540 | 4.87730 | .01100 | -.08040 | 25.00000 | .00000 | 4.86980 | -.05100 | .07290 |
| .951 | 4.220 | 5.19740 | 4.87710 | .01110 | -.07040 | 25.00000 | .00000 | 4.87440 | -.05560 | .07780 |
| .951 | 6.302 | 5.16900 | 4.86940 | .01300 | -.07040 | 25.00000 | .00840 | 4.86400 | -.05680 | .08280 |
| .950 | GRADIENT | .01619 | .00168 | .00168 | .00109 | -.00000 | -.00140 | .00029 | -.00029 | .00365 |

RUN NO. 435/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | AIL-1B | AIL-0B |
|-------|----------|---------|---------|--------|--------|----------|---------|---------|---------|--------|
| 1.103 | -6.233 | 5.25500 | 4.92700 | .03780 | .00000 | 25.00000 | -.08940 | 4.95350 | -.03000 | .10550 |
| 1.100 | -2.097 | 5.23020 | 4.92940 | .04020 | .00000 | 25.00000 | -.08940 | 4.90540 | -.03000 | .11040 |
| 1.101 | -1.045 | 5.23560 | 4.92940 | .04020 | .00000 | 25.00000 | -.08940 | 4.90540 | -.03000 | .11040 |
| 1.101 | .016 | 5.16820 | 4.92940 | .04020 | .00000 | 25.00000 | -.08940 | 4.90540 | -.03000 | .11040 |
| 1.101 | .534 | 5.19490 | 4.92940 | .04020 | .00000 | 25.00000 | -.09620 | 4.95350 | -.03000 | .11040 |
| 1.101 | 1.071 | 5.19370 | 4.92940 | .04020 | .00000 | 25.00000 | -.10290 | 4.90540 | -.03000 | .11040 |
| 1.101 | 2.122 | 5.19460 | 4.92940 | .04020 | .00000 | 25.00000 | -.10960 | 4.90540 | -.03000 | .11040 |
| 1.101 | 3.162 | 5.19910 | 4.92940 | .04020 | .00000 | 25.00000 | -.11640 | 4.90540 | -.03000 | .11040 |
| 1.100 | 4.206 | 5.20510 | 4.93190 | .04260 | .00000 | 25.00000 | -.12310 | 4.91020 | -.03000 | .11520 |
| 1.101 | 6.305 | 5.20020 | 4.92900 | .03970 | .00000 | 25.00000 | -.14110 | 4.91020 | -.03580 | .11520 |
| 1.100 | GRADIENT | .00400 | .00026 | .00025 | .00000 | .00000 | -.00601 | .00049 | .00000 | .00049 |

RUN NO. 168/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | AIL-1B | AIL-0B |
|-------|----------|---------|---------|---------|---------|----------|---------|---------|---------|--------|
| 1.199 | -6.102 | 5.65330 | 4.89730 | -.00330 | -.05030 | 25.00000 | -.04180 | 4.88030 | -.04970 | .04320 |
| 1.200 | -1.924 | 5.52520 | 4.90000 | -.00600 | -.06030 | 25.00000 | -.07530 | 4.88560 | -.05510 | .04320 |
| 1.199 | -.875 | 5.42050 | 4.90000 | -.00110 | -.06030 | 25.00000 | -.07530 | 4.91440 | -.05510 | .05300 |
| 1.200 | .029 | 5.26520 | 4.90000 | -.00600 | -.06030 | 25.00000 | -.10040 | 4.88560 | -.05510 | .04320 |
| 1.200 | .461 | 5.50400 | 4.89750 | -.00350 | -.06030 | 25.00000 | -.10040 | 4.90950 | -.05510 | .04810 |
| 1.200 | .988 | 5.54400 | 4.89750 | -.00350 | -.06030 | 25.00000 | -.10040 | 4.88560 | -.05510 | .04810 |
| 1.199 | 2.077 | 5.59660 | 4.89730 | .00160 | -.06030 | 25.00000 | -.10040 | 4.91430 | -.04970 | .05300 |
| 1.199 | 3.143 | 5.56060 | 4.90290 | .00180 | -.06030 | 25.00000 | -.10870 | 4.91430 | -.04970 | .05300 |
| 1.199 | 4.189 | 5.53930 | 4.89730 | .00160 | -.06030 | 25.00000 | -.11710 | 4.88030 | -.04970 | .05300 |
| 1.199 | 6.271 | 5.53370 | 4.90240 | -.00350 | -.06030 | 25.00000 | -.10870 | 4.88560 | -.05510 | .04800 |
| 1.195 | GRADIENT | .01903 | -.00013 | .00131 | .00000 | .00000 | -.00549 | .00008 | .00121 | .00141 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA
AMES 118-1-11 0A145A 01

(C2F041) (16 JUL 77)
PAGE 1003

REFERENCE DATA

| | | | | | | | | | |
|---|-------|---|-----------|--------|------|---|-----------|-----|----|
| = | SREF | = | 2630.0000 | SQ.FT. | XMRP | = | 1075.6800 | IN. | XO |
| = | LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. | YO |
| = | BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. | ZO |
| = | SCALE | = | .0500 | | | | | | |

ALPHA
A1LRON
SPDBRK
RN/L

| | | |
|---------|---|-------|
| ELEVON | = | 5.000 |
| BDF LAP | = | .000 |
| RUDDER | = | .000 |

RUN NO. 140/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | AIL-0B | AIL-1B | AIL-0B |
|-------|--------|---------|---------|---------|--------|----------|--------|---------|---------|--------|--------|
| 1.294 | -6.120 | 4.79610 | 4.89220 | -0.0390 | -080+0 | 25.00000 | -05020 | 4.87980 | 4.90450 | -06090 | 05310 |
| 1.296 | -2.044 | 4.80380 | 4.88950 | -0.0120 | -080+0 | 25.00000 | -06650 | 4.87440 | 4.90450 | -05560 | 05310 |
| 1.295 | -1.041 | 4.80850 | 4.89220 | -0.0390 | -080+0 | 25.00000 | -06650 | 4.87980 | 4.90450 | -06090 | 05310 |
| 1.294 | 0.015 | 4.82900 | 4.89220 | -0.0390 | -080+0 | 25.00000 | -00000 | 4.87980 | 4.90450 | -06090 | 05310 |
| 1.294 | 0.514 | 5.09430 | 4.89220 | -0.0390 | -080+0 | 25.00000 | -00840 | 4.87980 | 4.90450 | -06090 | 05310 |
| 1.295 | 1.038 | 5.15800 | 4.89220 | -0.0390 | -080+0 | 25.00000 | -00840 | 4.87980 | 4.90450 | -06090 | 05310 |
| 1.294 | 2.122 | 5.15510 | 4.89460 | -0.0640 | -080+0 | 25.00000 | -00840 | 4.87980 | 4.90550 | -06090 | 04810 |
| 1.293 | 3.174 | 5.13160 | 4.89210 | -0.0100 | -080+0 | 25.00000 | -00840 | 4.87980 | 4.90440 | -06090 | 06290 |
| 1.294 | 4.223 | 5.13160 | 4.89220 | -0.0390 | -080+0 | 25.00000 | -02510 | 4.87980 | 4.90450 | -06090 | 05100 |
| 1.293 | 6.315 | 5.12480 | 4.89170 | -0.0440 | -070+0 | 25.00000 | -05020 | 4.87440 | 4.90940 | -06670 | 05790 |
| | | 000735 | 000735 | -0.0001 | -00000 | 00000 | 00759 | 00017 | 00053 | -00052 | 00051 |

| | | | | | | |
|---------|--------|--------|------|---------------------|--------|------|
| RUN NO. | 160/ 0 | RN/L = | 5.01 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|---------|--------|--------|------|---------------------|--------|------|

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDOER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|---------|---------|---------|----------|----------|---------|---------|---------|----------|---------|
| 1.401 | -6.164 | 5.50890 | 4.91300 | -0.0250 | -0.07040 | 25.00000 | .31530 | 4.89190 | 4.93410 | -0.3810 | .03320 |
| 1.401 | -2.003 | 5.38170 | 4.90770 | -0.0780 | -0.07040 | 25.00000 | .30680 | 4.88610 | 4.92930 | -0.04390 | .02830 |
| 1.405 | -.935 | 5.51620 | 4.91010 | -0.0540 | -0.07040 | 25.00000 | .00000 | 4.88610 | 4.93410 | -0.04390 | .03320 |
| 1.405 | -.093 | 5.47750 | 4.91010 | -0.0540 | -0.07040 | 25.00000 | -.01670 | 4.88610 | 4.93410 | -0.04390 | .03320 |
| 1.403 | .568 | 5.46340 | 4.91010 | -0.0540 | -0.07040 | 25.00000 | -.03350 | 4.88610 | 4.93410 | -0.04390 | .03320 |
| 1.402 | 1.117 | 5.48410 | 4.91010 | -0.0540 | -0.07040 | 25.00000 | -.04180 | 4.88610 | 4.93410 | -0.04390 | .03320 |
| 1.403 | 2.207 | 5.47440 | 4.91010 | -0.0540 | -0.07040 | 25.00000 | -.05860 | 4.88610 | 4.93910 | -0.04390 | .02820 |
| 1.402 | 3.290 | 5.45420 | 4.91260 | -0.0790 | -0.07040 | 25.00000 | -1.0870 | 4.88030 | 4.94400 | -0.04970 | .02330 |
| 1.403 | 4.352 | 5.43120 | 4.91260 | -0.1320 | -0.07040 | 25.00000 | -1.3380 | 4.88610 | 4.94400 | -0.04390 | .02330 |
| 1.400 | 6.459 | 5.39340 | 4.91510 | -0.1030 | -0.07040 | 25.00000 | -.04566 | 4.88610 | 4.94400 | -0.00060 | -.00089 |
| 1.400 | GRADIENT | .00061 | .00061 | -.00074 | .00000 | .00000 | -.00060 | .00184 | .00184 | -.00060 | -.00089 |

DATE 10 MAR 80

OAI145 TABULATED FORCE DATA

PAGE 1004

(C2F042) (16 JUL 77)

AMES 118-1-11 OAI145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = -5.000
AILRON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 190/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|----------|---------|---------|----------|--------|----------|----------|---------|--------|
| .598 | -6.039 | 5.29740 | -5.31720 | .33910 | -.06030 | 25.00000 | .00000 | -5.51770 | -5.11680 | .54290 | .13520 |
| .598 | -1.323 | 5.27760 | -5.31720 | .33910 | -.07040 | 25.00000 | .00000 | -5.51770 | -5.11680 | .54290 | .13520 |
| .597 | -.880 | 5.24500 | -5.31980 | .34160 | -.07040 | 25.00000 | .00000 | -5.52280 | -5.11680 | .54800 | .13520 |
| .597 | .085 | 5.17450 | -5.31720 | .33910 | -.06030 | 25.00000 | .00000 | -5.51770 | -5.11680 | .54290 | .13520 |
| .598 | .540 | 5.18080 | -5.31980 | .34160 | -.07040 | 25.00000 | .00000 | -5.52280 | -5.11680 | .54800 | .13520 |
| .597 | 1.069 | 5.22200 | -5.31740 | .34400 | -.07040 | 25.00000 | .00000 | -5.52280 | -5.11200 | .54800 | .14000 |
| .598 | 2.144 | 5.23320 | -5.31740 | .34400 | -.07040 | 25.00000 | .00000 | -5.52280 | -5.11200 | .54800 | .14000 |
| .597 | 3.209 | 5.22060 | -5.31740 | .34400 | -.07040 | 25.00000 | .00000 | -5.52280 | -5.11200 | .54800 | .14000 |
| .597 | 4.273 | 5.20520 | -5.10260 | .12920 | -.07040 | 25.00000 | .00000 | -5.09320 | -5.11200 | .11840 | .14000 |
| .597 | 6.357 | 5.16400 | -5.05900 | .08640 | -.07040 | 25.00000 | .00000 | -5.00120 | -5.11680 | .03750 | .13520 |
| | GRADIENT | -.00625 | .02314 | -.02212 | -.00033 | -.00000 | .00000 | .04527 | .00103 | -.04527 | .00103 |

RUN NO. 118/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|----------|---------|---------|----------|---------|----------|----------|---------|---------|
| .799 | -6.062 | 4.85890 | -5.05690 | .09460 | -.06030 | 25.00000 | .11930 | -4.96330 | -5.15050 | .01070 | .17850 |
| .798 | -1.968 | 4.87980 | -5.05450 | .09150 | -.05030 | 25.00000 | .05110 | -4.96880 | -5.14020 | .00510 | .17780 |
| .799 | -.851 | 5.08630 | -5.05420 | .09190 | -.05030 | 25.00000 | .04260 | -4.95790 | -5.15050 | .00530 | .17850 |
| .798 | .129 | 5.04580 | -5.05690 | .08910 | -.05030 | 25.00000 | .02560 | -4.96880 | -5.14070 | .00510 | .17300 |
| .799 | .573 | 5.10680 | -5.05970 | .09180 | -.05030 | 25.00000 | .02560 | -4.96880 | -5.15050 | .00510 | .17850 |
| .799 | 1.126 | 5.14690 | -5.05970 | .09180 | -.05030 | 25.00000 | .01700 | -4.96880 | -5.15050 | .00510 | .17850 |
| .797 | 2.212 | 5.14320 | -5.05420 | .08640 | -.05030 | 25.00000 | .00000 | -4.94710 | -5.14500 | -.00030 | .17300 |
| .799 | 3.290 | 5.12490 | -5.04600 | .08380 | -.06030 | 25.00000 | .00000 | -4.95260 | -5.14500 | -.00550 | .17850 |
| .799 | 4.350 | 5.10400 | -5.05160 | .08370 | -.07040 | 25.00000 | .00000 | -4.95260 | -5.15050 | -.01110 | .17850 |
| .798 | 6.437 | 5.05900 | -5.04880 | .08100 | -.06030 | 25.00000 | -.03350 | -4.95260 | -5.14500 | -.01110 | .17300 |
| | GRADIENT | .02801 | .00105 | -.00149 | -.00280 | .00000 | -.00839 | .00272 | -.00061 | -.00264 | -.00034 |

RUN NO. 176/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|----------|---------|---------|----------|---------|----------|----------|---------|---------|
| .900 | -6.107 | 5.38340 | -5.04660 | .05000 | -.07040 | 25.00000 | .00000 | -4.96340 | -5.12970 | -.00030 | .10030 |
| .900 | -1.911 | 5.36560 | -5.05200 | .05550 | -.08040 | 25.00000 | -.01670 | -4.96880 | -5.13520 | .00510 | .10580 |
| .901 | -.850 | 5.30130 | -5.05210 | .05550 | -.07040 | 25.00000 | -.03350 | -4.96340 | -5.14070 | .00030 | .11130 |
| .899 | .038 | 5.14620 | -5.04930 | .05830 | -.08040 | 25.00000 | .04180 | -4.95790 | -5.14070 | .00530 | .11130 |
| .900 | .443 | 5.44640 | -5.04380 | .05280 | -.07040 | 25.00000 | .05020 | -4.95790 | -5.12970 | .00530 | .10030 |
| .901 | .954 | 5.52590 | -5.04900 | .04760 | -.08040 | 25.00000 | .05020 | -4.96340 | -5.13450 | -.00030 | .09550 |
| .898 | 2.041 | 5.58430 | -5.04660 | .05550 | -.08040 | 25.00000 | .06590 | -4.95790 | -5.13520 | .00530 | .10580 |
| .900 | 3.119 | 5.59470 | -5.05170 | .05040 | -.08040 | 25.00000 | -.07530 | -4.96340 | -5.14000 | -.00030 | .10100 |
| .901 | 4.179 | 5.57410 | -5.05170 | .05580 | -.08040 | 25.00000 | -.10870 | -4.96330 | -5.14000 | .01070 | .10100 |
| .898 | 6.245 | 5.55000 | -5.05200 | .05550 | -.08040 | 25.00000 | -.14220 | -4.96880 | -5.13520 | .00510 | .10580 |
| | GRADIENT | .05736 | .00000 | -.00037 | -.00084 | .00000 | -.01364 | .00046 | -.00045 | .00057 | -.00130 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

AMES 118-1-11 OAI45A 01

(C2F042) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

ALPHA =
 AIRLON =
 SPOBRK =
 RN/L =

5.000 ELEVON = -5.000
 .000 BDFLAP = .000
 25.000 RUDDER = .000
 5.000

PARAMETRIC DATA

| RUN NO. 129/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | |
|--|----------|---------|----------|--------|---------|----------|---------|----------|---------|
| MACH | BETA | ALPHA | ELEVON | AIRLON | BDFLAP | SPOBRK | RUDDER | ELV-OB | AIRL-OB |
| .951 | -6.120 | 4.82000 | -5.04860 | .09180 | -.08040 | 25.00000 | .01700 | -5.13400 | .16200 |
| .951 | -1.895 | 5.15900 | -5.04620 | .09420 | -.08040 | 25.00000 | .00000 | -5.12920 | .16880 |
| .951 | -.826 | 5.12500 | -5.04890 | .09700 | -.08040 | 25.00000 | .00000 | -5.13470 | .17230 |
| .951 | .074 | 4.99770 | -5.04930 | .10210 | -.08040 | 25.00000 | .00000 | -5.13540 | .18260 |
| .951 | .473 | 5.17500 | -5.05480 | .10210 | -.08040 | 25.00000 | .00000 | -5.14090 | .18810 |
| .951 | 1.037 | 5.26580 | -5.05750 | .11040 | -.08040 | 25.00000 | .00000 | -5.14640 | .19360 |
| .951 | 2.118 | 5.27610 | -5.05750 | .11030 | -.08040 | 25.00000 | .00000 | -5.14640 | .19360 |
| .952 | 3.190 | 5.25190 | -5.05480 | .10750 | -.08040 | 25.00000 | .00840 | -5.15190 | .19910 |
| .952 | 4.230 | 5.22940 | -5.05750 | .11040 | -.08040 | 25.00000 | -.01670 | -5.12990 | .17710 |
| .950 | 6.306 | 5.20460 | -5.04650 | .09940 | -.08040 | 25.00000 | -.00091 | -.00355 | .00513 |
| | GRADIENT | .02587 | -.00182 | .00272 | -.00000 | .00000 | -.00091 | -.00008 | .00031 |

RUN NO. 434/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AIRLON | BDFLAP | SPOBRK | RUDDER | ELV-OB | AIRL-OB |
|-------|----------|---------|----------|--------|--------|----------|---------|----------|---------|
| 1.102 | -6.203 | 5.37810 | -4.86400 | .03330 | .00000 | 25.00000 | -.10290 | -4.85550 | .04670 |
| 1.102 | -2.082 | 5.37420 | -4.86400 | .03330 | .00000 | 25.00000 | -.09620 | -4.87250 | .04670 |
| 1.101 | -1.040 | 5.34250 | -4.86160 | .03570 | .00000 | 25.00000 | -.09620 | -4.85070 | .05150 |
| 1.102 | .101 | 5.33520 | -4.86160 | .03570 | .00000 | 25.00000 | -.10960 | -4.85070 | .05150 |
| 1.101 | .694 | 5.22690 | -4.86160 | .03570 | .00000 | 25.00000 | -.10960 | -4.85070 | .05150 |
| 1.102 | 1.170 | 5.17220 | -4.85920 | .03810 | .00000 | 25.00000 | -.11640 | -4.84590 | .05630 |
| 1.101 | 2.213 | 5.13850 | -4.85920 | .03810 | .00000 | 25.00000 | -.12310 | -4.87250 | .05630 |
| 1.100 | 3.259 | 5.11320 | -4.85920 | .04030 | .00000 | 25.00000 | -.14110 | -4.87250 | .06070 |
| 1.101 | 4.303 | 5.09390 | -4.86140 | .03810 | .00000 | 25.00000 | -.15900 | -4.84590 | .05630 |
| 1.100 | 6.388 | 5.12060 | -4.85920 | .00095 | .00000 | .00000 | -.00654 | .00101 | .00190 |
| | GRADIENT | -.04991 | .00051 | .00095 | .00000 | .00000 | -.00654 | .00101 | .00190 |

RUN NO. 167/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AIRLON | BDFLAP | SPOBRK | RUDDER | ELV-OB | AIRL-OB |
|-------|----------|---------|----------|--------|---------|----------|---------|----------|---------|
| 1.199 | -6.118 | 5.35980 | -5.03520 | .07220 | -.06030 | 25.00000 | -.06690 | -5.09620 | .13380 |
| 1.202 | -1.908 | 5.51260 | -5.03800 | .07490 | -.05030 | 25.00000 | -.09200 | -5.10170 | .13930 |
| 1.199 | -.865 | 5.46070 | -5.03280 | .07460 | -.06030 | 25.00000 | -.09200 | -5.09140 | .13860 |
| 1.201 | .035 | 5.32780 | -5.03560 | .07730 | -.06030 | 25.00000 | -.09200 | -5.09690 | .14410 |
| 1.200 | .445 | 5.45310 | -5.04070 | .07760 | -.06030 | 25.00000 | -.10040 | -5.10170 | .13930 |
| 1.200 | .967 | 5.51910 | -5.03800 | .07490 | -.06030 | 25.00000 | -.10040 | -5.10170 | .13930 |
| 1.198 | 2.061 | 5.55950 | -5.03800 | .08000 | -.06030 | 25.00000 | -.10870 | -5.09690 | .14410 |
| 1.199 | 3.144 | 5.55410 | -5.03560 | .07730 | -.06030 | 25.00000 | -.10870 | -5.09690 | .14410 |
| 1.199 | 4.192 | 5.53400 | -5.03830 | .08000 | -.05030 | 25.00000 | -.11710 | -5.08590 | .13310 |
| 1.198 | 6.275 | 5.51870 | -5.03010 | .07180 | -.06030 | 25.00000 | -.11710 | -5.08590 | .00094 |
| | GRADIENT | .01765 | -.00023 | .00081 | .00009 | .00000 | -.00440 | .00023 | .00068 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

PAGE 1006
(C2F042) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

RUN NO. 139/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | AIL-1B | ELV-0B | AIL-0B |
|-------|----------|---------|----------|---------|---------|----------|---------|----------|--------|----------|---------|
| 1.293 | -6.140 | 4.81400 | -5.04240 | .07050 | -.07040 | 25.00000 | .05970 | -4.96870 | .01610 | -5.11610 | .12490 |
| 1.297 | -2.045 | 4.81780 | -5.04550 | .07840 | -.08040 | 25.00000 | .04260 | -4.96870 | .01610 | -5.12230 | .14070 |
| 1.295 | -1.014 | 4.82970 | -5.04550 | .07840 | -.08040 | 25.00000 | .04260 | -4.96870 | .01610 | -5.12230 | .14070 |
| 1.295 | .078 | 4.87550 | -5.04550 | .07840 | -.09050 | 25.00000 | .03410 | -4.96870 | .01050 | -5.12230 | .13520 |
| 1.294 | .596 | 4.84380 | -5.04550 | .07290 | -.08040 | 25.00000 | .02560 | -4.97420 | .01610 | -5.11680 | .12490 |
| 1.294 | 1.136 | 4.78850 | -5.04240 | .07050 | -.08040 | 25.00000 | .01700 | -4.96870 | .01610 | -5.11610 | .10910 |
| 1.294 | 2.149 | 4.78290 | -5.03930 | .06260 | -.08040 | 25.00000 | .00850 | -4.96870 | .01610 | -5.10990 | .10910 |
| 1.294 | 3.189 | 4.77780 | -5.03930 | .06260 | -.08040 | 25.00000 | .00000 | -4.96870 | .01610 | -5.10990 | .10910 |
| 1.294 | 4.228 | 4.77180 | -5.04240 | .07050 | -.09050 | 25.00000 | .00000 | -4.96870 | .01610 | -5.11610 | .12490 |
| 1.294 | 6.315 | 4.75710 | -5.04270 | .07570 | -.08040 | 25.00000 | -.00840 | -4.96870 | .01610 | -5.11680 | .13520 |
| 1.292 | GRADIENT | -.01184 | .00098 | -.00243 | -.00073 | .00000 | -.00816 | .00008 | .00008 | .00183 | -.00494 |

RUN NO. 159/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | AIL-1B | ELV-0B | AIL-0B |
|-------|----------|---------|----------|--------|---------|----------|---------|----------|---------|----------|--------|
| 1.401 | -6.157 | 5.60850 | -5.03770 | .06430 | -.07040 | 25.00000 | -.03350 | -4.97440 | -.00040 | -5.10100 | .12900 |
| 1.406 | -2.000 | 5.38530 | -5.03770 | .06430 | -.07040 | 25.00000 | -.06690 | -4.97440 | -.00040 | -5.10100 | .12900 |
| 1.405 | -.937 | 5.36380 | -5.03770 | .06430 | -.08040 | 25.00000 | -.09200 | -4.97440 | -.00040 | -5.10100 | .12900 |
| 1.405 | .092 | 5.27250 | -5.03770 | .06430 | -.08040 | 25.00000 | -.10040 | -4.97440 | -.00040 | -5.10100 | .12900 |
| 1.404 | .560 | 5.46090 | -5.03490 | .06710 | -.07040 | 25.00000 | -.10040 | -4.96880 | -.00510 | -5.10100 | .12900 |
| 1.405 | 1.110 | 5.49310 | -5.03770 | .06430 | -.07040 | 25.00000 | -.03350 | -4.97440 | -.00040 | -5.10100 | .12900 |
| 1.403 | 2.197 | 5.49060 | -5.03770 | .06430 | -.08040 | 25.00000 | -.03350 | -4.97440 | -.00040 | -5.10100 | .12900 |
| 1.402 | 3.282 | 5.47140 | -5.03770 | .06430 | -.07040 | 25.00000 | -.03350 | -4.97440 | -.00040 | -5.10100 | .12900 |
| 1.404 | 4.348 | 5.44950 | -5.04040 | .06710 | -.07040 | 25.00000 | .01700 | -4.97440 | -.00040 | -5.10650 | .13450 |
| 1.400 | 6.469 | 5.41200 | -5.04320 | .06980 | -.07040 | 25.00000 | .01700 | -4.97440 | -.00040 | -5.11200 | .14000 |
| 1.400 | GRADIENT | .02011 | -.00033 | .00024 | .00060 | .00000 | .01366 | -.00009 | -.00009 | -.00057 | .00057 |

OAI45 TABULATED FORCE DATA

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO

LREF = 474.8100 INCHES YMRP = .0000 IN. YO

BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO

SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = -10.000

AILRON = .000 BDFLAP = .000

SPDBRK = 25.000 RUDDER = .000

RN/L = 5.000

RUN NO. 189/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | ELV-OB | AIL-1B | AIL-OB |
|------|----------|---------|-----------|---------|---------|----------|--------|-----------|-----------|---------|--------|
| .598 | -6.025 | 5.21640 | -10.20800 | .07280 | -.06030 | 25.00000 | .00000 | -10.02900 | -10.38700 | -.00610 | .15170 |
| .597 | -1.915 | 5.19170 | -10.20500 | .07550 | -.06030 | 25.00000 | .00000 | -10.02300 | -10.38700 | -.00060 | .15170 |
| .598 | -.872 | 5.15600 | -10.20800 | .07830 | -.07040 | 25.00000 | .00000 | -10.02900 | -10.38700 | -.00500 | .15170 |
| .597 | .085 | 5.07530 | -10.20500 | .07550 | -.07040 | 25.00000 | .00000 | -10.02300 | -10.38700 | -.00060 | .15170 |
| .598 | .533 | 5.09150 | -10.21600 | .07590 | -.06030 | 25.00000 | .00000 | -10.02900 | -10.40300 | -.00610 | .15800 |
| .598 | 1.063 | 5.13770 | -10.21100 | .07560 | -.07040 | 25.00000 | .00000 | -10.03400 | -10.38700 | -.00050 | .15170 |
| .598 | 2.139 | 5.15190 | -10.20800 | .07280 | -.07040 | 25.00000 | .00000 | -10.02900 | -10.38700 | -.00610 | .15730 |
| .598 | 3.205 | 5.13880 | -10.21100 | .07560 | -.07040 | 25.00000 | .00000 | -10.02900 | -10.39300 | -.00610 | .15730 |
| .597 | 4.272 | 5.12070 | -10.21100 | .07560 | -.07040 | 25.00000 | .00000 | -10.02900 | -10.39300 | -.00500 | .15730 |
| .597 | 6.356 | 5.07690 | -10.21100 | .08120 | -.07040 | 25.00000 | .00000 | -10.02900 | -10.39300 | -.00500 | .15730 |
| | GRADIENT | -.00494 | -.00079 | -.00027 | -.00119 | .00000 | .00000 | -.00079 | -.00079 | -.00145 | .00069 |

RUN NO. 117/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | ELV-OB | AIL-1B | AIL-OB |
|------|----------|---------|-----------|---------|---------|----------|---------|-----------|-----------|---------|---------|
| .799 | -6.050 | 4.77840 | -10.21600 | .08710 | -.06030 | 25.00000 | .11930 | -10.00600 | -10.42500 | -.00620 | .18050 |
| .799 | -1.935 | 4.81970 | -10.21000 | .08150 | -.06030 | 25.00000 | .05970 | -10.00600 | -10.41400 | -.00620 | .16920 |
| .799 | -.888 | 4.78030 | -10.21600 | .08710 | -.06030 | 25.00000 | .05110 | -10.00600 | -10.42500 | -.00620 | .18050 |
| .799 | .106 | 4.52700 | -10.21400 | .08560 | -.07040 | 25.00000 | .01700 | -9.98580 | -10.44200 | -.01550 | .18680 |
| .800 | .595 | 5.05440 | -10.21300 | .08430 | -.06030 | 25.00000 | .00850 | -10.00600 | -10.42000 | -.00620 | .17480 |
| .799 | 1.118 | 5.12860 | -10.21300 | .07900 | -.06030 | 25.00000 | .00850 | -10.00600 | -10.41900 | -.00620 | .16430 |
| .798 | 2.208 | 5.12820 | -10.21100 | .07690 | -.06030 | 25.00000 | .00000 | -10.00100 | -10.42500 | -.01610 | .16930 |
| .798 | 3.287 | 5.10880 | -10.21000 | .07660 | -.07040 | 25.00000 | .00000 | -10.00100 | -10.41900 | -.01120 | .16430 |
| .799 | 4.349 | 5.08550 | -10.21300 | .07940 | -.06030 | 25.00000 | -.02510 | -10.00100 | -10.42500 | -.01120 | .16990 |
| .799 | 6.439 | 5.03780 | -10.21600 | .08780 | -.07040 | 25.00000 | -.04180 | -9.99570 | -10.43600 | -.00560 | .18120 |
| | GRADIENT | .06743 | .00021 | -.00127 | -.00039 | -.00000 | -.01246 | .00057 | -.00012 | -.00093 | -.00164 |

RUN NO. 175/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | ELV-OB | AIL-1B | AIL-OB |
|------|----------|---------|-----------|--------|---------|----------|---------|-----------|-----------|---------|--------|
| .900 | -6.126 | 5.39320 | -10.21000 | .07060 | -.08040 | 25.00000 | .00850 | -10.02900 | -10.39100 | .00900 | .13630 |
| .900 | -1.870 | 5.53850 | -10.21000 | .07590 | -.08040 | 25.00000 | -.02510 | -10.02300 | -10.39800 | -.00060 | .15240 |
| .902 | -.832 | 5.45310 | -10.21600 | .08150 | -.08040 | 25.00000 | -.04180 | -10.02300 | -10.40900 | -.00060 | .16360 |
| .900 | .039 | 5.32900 | -10.22100 | .08710 | -.08040 | 25.00000 | -.05020 | -10.02900 | -10.41400 | .00500 | .16920 |
| .899 | .420 | 5.38900 | -10.21900 | .08990 | -.08040 | 25.00000 | -.05020 | -10.02300 | -10.41400 | .01050 | .16920 |
| .899 | .944 | 5.51390 | -10.22400 | .08990 | -.08040 | 25.00000 | -.05860 | -10.03400 | -10.41400 | .01060 | .16430 |
| .900 | 2.029 | 5.58280 | -10.22700 | .08750 | -.08040 | 25.00000 | -.06690 | -10.03400 | -10.41900 | .01060 | .16430 |
| .900 | 3.108 | 5.59770 | -10.22100 | .08190 | -.09050 | 25.00000 | -.09200 | -10.02300 | -10.41900 | -.00060 | .15870 |
| .899 | 4.167 | 5.58120 | -10.21800 | .07910 | -.09050 | 25.00000 | -.10870 | -10.02300 | -10.41400 | -.00060 | .16360 |
| .898 | 6.235 | 5.55300 | -10.21900 | .08430 | -.08040 | 25.00000 | -.13380 | -10.02900 | -10.40900 | .00500 | .15730 |
| | GRADIENT | .02648 | -.00135 | .00017 | -.00188 | .00000 | -.01330 | -.00017 | -.00249 | -.00003 | .00035 |

0A145 TABULATED FORCE DATA

(C2F043) (16 JUL 77)

DATE 10 MAR 80

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = -10.000
AILRON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 128/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|-----------|--------|---------|----------|---------|-----------|-----------|---------|--------|
| .953 | -6.085 | 4.58200 | -10.21600 | .07590 | -.08040 | 25.00000 | .01700 | -10.02300 | -10.40900 | -.01170 | .16360 |
| .952 | -1.951 | 4.69390 | -10.21900 | .07880 | -.08040 | 25.00000 | .00850 | -10.02300 | -10.41400 | -.01170 | .16920 |
| .951 | -.798 | 5.05240 | -10.23300 | .09280 | -.08040 | 25.00000 | .00850 | -10.02300 | -10.44200 | -.01170 | .19730 |
| .951 | .072 | 4.87220 | -10.23600 | .09560 | -.08040 | 25.00000 | .00850 | -10.02900 | -10.44200 | -.00610 | .19730 |
| .952 | .463 | 5.12310 | -10.23800 | .09280 | -.08040 | 25.00000 | .00000 | -10.02800 | -10.44800 | -.01730 | .20290 |
| .951 | 1.027 | 5.18520 | -10.24100 | .10120 | -.08040 | 25.00000 | .00000 | -10.03400 | -10.44800 | -.00050 | .20290 |
| .951 | 2.110 | 5.20170 | -10.23800 | .09840 | -.08040 | 25.00000 | .00000 | -10.02300 | -10.45400 | -.01170 | .20850 |
| .950 | 3.179 | 5.17760 | -10.23600 | .09560 | -.08040 | 25.00000 | .00000 | -10.02900 | -10.44200 | -.00610 | .19730 |
| .951 | 4.220 | 5.16260 | -10.23600 | .10080 | -.08040 | 25.00000 | .00000 | -10.02900 | -10.44300 | -.00610 | .20780 |
| .949 | 6.296 | 5.13360 | -10.23600 | .10080 | -.08040 | 25.00000 | -.01670 | -10.02300 | -10.44900 | -.01170 | .21340 |
| | GRADIENT | .06737 | -.00195 | .00260 | -.00000 | .00000 | -.00167 | -.00078 | -.00327 | -.00093 | .00429 |

RUN NO. 433/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|-------|--------|---------|----------|--------|---------|----------|---------|----------|-----------|---------|--------|
| 1.102 | -6.176 | 5.30100 | -9.98430 | .01930 | .00000 | 25.00000 | -.09620 | -9.90560 | -10.06300 | .01510 | .02350 |
| 1.102 | -2.052 | 5.28960 | -9.98180 | .02180 | .00000 | 25.00000 | -.09620 | -9.90560 | -10.05800 | .01510 | .02840 |
| 1.101 | -1.004 | 5.25260 | -9.98180 | .02180 | .00000 | 25.00000 | -.10290 | -9.90560 | -10.05800 | .01510 | .02840 |
| 1.102 | .095 | 5.29180 | -9.97940 | .02420 | .00000 | 25.00000 | -.10960 | -9.90560 | -10.05300 | .01510 | .03330 |
| 1.101 | .665 | 5.25090 | -9.97940 | .02420 | .00000 | 25.00000 | -.10290 | -9.90560 | -10.05300 | .01510 | .03330 |
| 1.101 | 1.165 | 5.19070 | -9.97970 | .02390 | .00000 | 25.00000 | -.12310 | -9.91120 | -10.04800 | .00960 | .03820 |
| 1.101 | 2.221 | 5.15580 | -9.98180 | .02180 | .00000 | 25.00000 | -.11640 | -9.90560 | -10.05800 | .01510 | .02840 |
| 1.099 | 3.267 | 5.13290 | -9.97940 | .02420 | .00000 | 25.00000 | -.12310 | -9.90560 | -10.05300 | .01510 | .03330 |
| 1.100 | 4.312 | 5.11100 | -9.96990 | .03370 | .00000 | 25.00000 | -.13210 | -9.91120 | -10.02900 | .00960 | .05780 |
| 1.100 | 6.394 | 5.07270 | -9.95980 | .04380 | .00000 | 25.00000 | -.15900 | -9.90560 | -10.01400 | .01510 | .07250 |
| 1.098 | | .03103 | .00127 | .00127 | -.00064 | .00000 | -.00533 | -.00058 | .00309 | -.00057 | .00313 |

RUN NO. 166/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|---------|-----------|---------|---------|----------|---------|-----------|-----------|---------|--------|
| 1.202 | -6.156 | 5.38940 | -10.20200 | .06720 | -.06030 | 25.00000 | .00000 | -10.02900 | -10.37600 | -.00610 | .14050 |
| 1.203 | -1.901 | 5.48670 | -10.20200 | .07270 | -.06030 | 25.00000 | -.06590 | -10.02300 | -10.38100 | -.00060 | .14610 |
| 1.200 | -.854 | 5.42720 | -10.20500 | .07000 | -.06030 | 25.00000 | -.08370 | -10.02900 | -10.38100 | -.00610 | .14610 |
| 1.201 | .036 | 5.28260 | -10.20500 | .07000 | -.06030 | 25.00000 | -.09200 | -10.02900 | -10.38100 | -.00610 | .14050 |
| 1.200 | .444 | 5.45120 | -10.20800 | .06720 | -.07040 | 25.00000 | -.10040 | -10.04000 | -10.37600 | -.00610 | .14050 |
| 1.200 | .958 | 5.52490 | -10.20200 | .06720 | -.07040 | 25.00000 | -.10040 | -10.02900 | -10.37600 | -.00610 | .14050 |
| 1.199 | 2.062 | 5.58170 | -10.20500 | .07000 | -.06030 | 25.00000 | -.09200 | -10.02900 | -10.38100 | -.00050 | .14610 |
| 1.199 | 3.142 | 5.58070 | -10.20800 | .07280 | -.06030 | 25.00000 | -.11710 | -10.03400 | -10.38100 | -.00610 | .14610 |
| 1.199 | 4.193 | 5.55790 | -10.20500 | .07000 | -.06030 | 25.00000 | -.10870 | -10.02900 | -10.38100 | -.00610 | .14610 |
| 1.195 | 6.277 | 5.54260 | -10.20500 | .07000 | -.06030 | 25.00000 | -.10870 | -10.02900 | -10.38100 | -.00610 | .14610 |
| | GRADIENT | .02947 | -.00047 | -.00031 | .00022 | .00000 | -.00655 | -.00076 | -.00011 | -.00014 | .00012 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

AMES 118-1-11 0A145A 01

(C2F043) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

ALPHA = 5.000 ELEVON = -10.000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 138/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|---------|-----------|--------|---------|----------|---------|-----------|-----------|---------|---------|
| 1.298 | -6.094 | 4.91330 | -10.19000 | .02190 | -.09040 | 25.00000 | .02560 | -.03960 | -.04540 | -.01840 | -.02540 |
| 1.299 | -1.948 | 4.82190 | -10.19600 | .05630 | -.08040 | 25.00000 | .02560 | -10.01700 | -10.37500 | -.01730 | -.13000 |
| 1.297 | -.887 | 4.80950 | -10.19600 | .05630 | -.08040 | 25.00000 | .02560 | -10.01700 | -10.37500 | -.01730 | -.13000 |
| 1.294 | .166 | 4.79460 | -10.19900 | .06440 | -.08040 | 25.00000 | .02560 | -10.02300 | -10.38100 | -.01730 | -.14050 |
| 1.295 | .628 | 4.96710 | -10.19900 | .05910 | -.09050 | 25.00000 | .02560 | -10.01700 | -10.38100 | -.01730 | -.13560 |
| 1.294 | 1.183 | 5.01320 | -10.19900 | .05910 | -.09050 | 25.00000 | .02560 | -10.01700 | -10.38100 | -.01730 | -.13560 |
| 1.293 | 2.277 | 4.98860 | -10.19900 | .05910 | -.08040 | 25.00000 | .00000 | -10.01700 | -10.38100 | -.01730 | -.13560 |
| 1.294 | 3.348 | 4.96160 | -10.19900 | .05910 | -.08040 | 25.00000 | .00000 | -10.01700 | -10.38100 | -.01730 | -.13560 |
| 1.294 | 4.397 | 4.93970 | -10.19900 | .05910 | -.09050 | 25.00000 | .00000 | -10.01700 | -10.38100 | -.01730 | -.13560 |
| 1.294 | 6.488 | 4.90000 | -10.19900 | .05910 | -.09050 | 25.00000 | .00000 | -10.01700 | -10.38100 | -.01730 | -.13560 |
| 1.294 | GRADIENT | .02729 | -.00049 | .00029 | -.00020 | .00000 | -.00503 | .00019 | -.00113 | -.00017 | .00076 |

RUN NO. 158/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|---------|-----------|--------|---------|----------|---------|-----------|-----------|---------|---------|
| 1.406 | -6.157 | 5.37280 | -10.19900 | .06440 | -.08040 | 25.00000 | .12550 | -10.02300 | -10.37600 | -.01170 | -.14050 |
| 1.407 | -1.973 | 5.34420 | -10.19700 | .06710 | -.07040 | 25.00000 | .17570 | -10.01700 | -10.37600 | -.00620 | -.14050 |
| 1.406 | -.914 | 5.31210 | -10.19900 | .06990 | -.07040 | 25.00000 | .17570 | -10.01700 | -10.38100 | -.00620 | -.14610 |
| 1.405 | -.019 | 5.21910 | -10.19900 | .06990 | -.07040 | 25.00000 | .21310 | -10.01700 | -10.38100 | -.00620 | -.14610 |
| 1.403 | .559 | 5.47710 | -10.19900 | .06990 | -.07040 | 25.00000 | .01670 | -10.01700 | -10.38100 | -.00620 | -.14610 |
| 1.403 | 1.100 | 5.50540 | -10.20200 | .06720 | -.08040 | 25.00000 | -.02510 | -10.02300 | -10.38100 | -.01170 | -.14610 |
| 1.404 | 2.190 | 5.50510 | -10.19900 | .06990 | -.08040 | 25.00000 | -.03350 | -10.01700 | -10.38100 | -.00620 | -.14610 |
| 1.403 | 3.275 | 5.48530 | -10.20200 | .07270 | -.08040 | 25.00000 | -.05020 | -10.02300 | -10.38100 | -.00620 | -.14050 |
| 1.402 | 4.345 | 5.46110 | -10.19700 | .06710 | -.07040 | 25.00000 | -.06690 | -10.01700 | -10.37600 | -.00620 | -.14050 |
| 1.399 | 6.469 | 5.41850 | -10.19900 | .06440 | -.08040 | 25.00000 | -.12550 | -10.02300 | -10.37600 | -.01170 | -.14050 |
| 1.399 | GRADIENT | .03210 | -.00020 | .00017 | -.00089 | .00000 | .00927 | -.00043 | .00004 | .00039 | -.00004 |

DATE 10 MAR 80

OAI145 TABULATED FORCE DATA

AMES 11B-1-11 OAI145A 01

PAGE 1010

(C2F044) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = -5.000
AILRON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 782/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | | | | | | | |
|------|----------|----------|----------|---------|---------|----------|---------|----------|---------|---------|
| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
| .597 | -6.029 | 9.95770 | -4.93890 | .00290 | .00970 | 25.00000 | -.04220 | -4.94200 | .01650 | -.01070 |
| .595 | -1.970 | 9.98390 | -4.94430 | .01380 | .01940 | 25.00000 | -.13210 | -4.94200 | .03830 | -.01070 |
| .596 | -.955 | 9.97870 | -4.93350 | .00300 | .00970 | 25.00000 | -.11640 | -4.94200 | .01670 | -.01070 |
| .596 | .069 | 9.97990 | -4.93620 | .00570 | .00970 | 25.00000 | -.10960 | -4.94200 | .02210 | -.01070 |
| .596 | .560 | 9.98110 | -4.93620 | .00570 | .00970 | 25.00000 | -.11640 | -4.94200 | .02210 | -.01070 |
| .597 | 1.059 | 9.98860 | -4.93620 | .00570 | .00970 | 25.00000 | -.12310 | -4.94200 | .02210 | -.01070 |
| .595 | 2.087 | 9.98330 | -4.93620 | .00570 | .00970 | 25.00000 | -.12310 | -4.94200 | .02210 | -.01070 |
| .596 | 3.108 | 9.99490 | -4.93620 | .00570 | .00970 | 25.00000 | -.12310 | -4.94200 | .02210 | -.01070 |
| .593 | 4.148 | 10.01800 | -4.93620 | .00570 | .00970 | 25.00000 | -.14110 | -4.94200 | .02210 | -.01070 |
| .596 | 6.211 | 10.02600 | -4.93620 | .00570 | .00970 | 25.00000 | -.00006 | -4.94200 | -.00129 | -.00000 |
| | GRADIENT | .00492 | .00064 | -.00064 | -.00099 | .00000 | -.00006 | -.00000 | -.00129 | -.00000 |

RUN NO. 781/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | | | | | | | |
|------|----------|----------|----------|---------|--------|----------|---------|----------|---------|---------|
| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
| .798 | -6.085 | 9.98530 | -4.93350 | .00300 | .00970 | 25.00000 | -.06920 | -4.94200 | .01670 | -.01070 |
| .799 | -2.008 | 9.98040 | -4.93350 | .00300 | .00970 | 25.00000 | -.12310 | -4.94200 | .01670 | -.01070 |
| .799 | -.981 | 9.97490 | -4.93350 | .00300 | .00970 | 25.00000 | -.11640 | -4.94200 | .01670 | -.01070 |
| .798 | .057 | 9.95560 | -4.93350 | .00300 | .00970 | 25.00000 | -.12310 | -4.94200 | .01670 | -.00990 |
| .798 | .958 | 9.96160 | -4.93870 | .00340 | .00970 | 25.00000 | -.11640 | -4.95250 | .01670 | -.01070 |
| .799 | 1.062 | 9.94670 | -4.93080 | .00030 | .00970 | 25.00000 | -.12310 | -4.94200 | .01670 | -.00990 |
| .798 | 2.110 | 10.00700 | -4.93870 | .00340 | .00970 | 25.00000 | -.13210 | -4.94200 | .01670 | -.01070 |
| .797 | 3.142 | 10.02600 | -4.93080 | .00030 | .01940 | 25.00000 | -.13210 | -4.94200 | .01130 | -.01070 |
| .798 | 4.193 | 10.04600 | -4.93090 | .00040 | .01940 | 25.00000 | -.11640 | -4.94770 | .00590 | -.00510 |
| .798 | 6.273 | 10.05000 | -4.92400 | -.01680 | .01940 | 25.00000 | -.12310 | -4.94680 | -.01810 | -.01550 |
| | GRADIENT | .01251 | .00036 | -.00046 | .00171 | -.00000 | -.00047 | -.00082 | -.00153 | -.00061 |

RUN NO. 774/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | | | | | | | |
|------|----------|----------|----------|---------|--------|----------|---------|----------|--------|---------|
| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
| .898 | -6.112 | 9.96490 | -4.93070 | -.00530 | .01940 | 25.00000 | -.06920 | -4.93640 | .00570 | -.01640 |
| .901 | -2.023 | 10.00400 | -4.93350 | -.00250 | .01940 | 25.00000 | -.09620 | -4.94200 | .00570 | -.01070 |
| .900 | -.988 | 10.00100 | -4.93350 | -.00250 | .01940 | 25.00000 | -.10290 | -4.94200 | .00570 | -.01070 |
| .899 | .056 | 10.01200 | -4.93350 | -.00250 | .01940 | 25.00000 | -.11640 | -4.94200 | .00570 | -.00590 |
| .900 | .557 | 9.90990 | -4.93110 | -.00010 | .01940 | 25.00000 | -.12310 | -4.94200 | .00570 | -.01070 |
| .900 | 1.069 | 9.99180 | -4.93350 | -.00010 | .01940 | 25.00000 | -.10960 | -4.94200 | .00570 | -.00590 |
| .898 | 2.113 | 9.99490 | -4.93110 | -.00010 | .01940 | 25.00000 | -.10960 | -4.93720 | .00570 | -.00590 |
| .898 | 3.158 | 9.99540 | -4.93110 | -.00010 | .01940 | 25.00000 | -.10960 | -4.93720 | .00570 | -.00590 |
| .898 | 4.219 | 10.02900 | -4.92870 | -.00230 | .01940 | 25.00000 | -.12310 | -4.93720 | .00570 | -.00590 |
| .898 | 6.299 | 10.02900 | -4.93110 | -.00010 | .01940 | 25.00000 | -.13210 | -4.93720 | .00570 | -.00590 |
| | GRADIENT | -.00070 | .00072 | -.00072 | .00000 | .00000 | -.00290 | .00145 | .00000 | .00145 |

DATE 10 MAR 80

OAI145 TABULATED FORCE DATA
AMES 118-1-11 OAI145A 01

PAGE 1011
(C2F044) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

ALPHA = 10.000 ELEVON = -5.000
AILRON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 773/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-08 |
|------|----------|----------|----------|---------|--------|----------|---------|----------|---------|
| .950 | -6.125 | 9.85290 | -4.94180 | -.00530 | .01940 | 25.00000 | -.03550 | -4.94200 | -.01070 |
| .951 | -2.033 | 10.01600 | -4.94740 | -.00530 | .01940 | 25.00000 | -.15000 | -4.94770 | -.00510 |
| .951 | -.996 | 10.01300 | -4.94460 | -.00250 | .01940 | 25.00000 | -.10290 | -4.94770 | -.00510 |
| .951 | .051 | 9.96460 | -4.94740 | -.00530 | .01940 | 25.00000 | -.10290 | -4.94770 | -.00510 |
| .950 | .556 | 9.96740 | -4.94740 | -.00530 | .01940 | 25.00000 | -.09620 | -4.94770 | -.00510 |
| .951 | 1.067 | 9.95130 | -4.94740 | -.00530 | .01940 | 25.00000 | -.10960 | -4.94770 | -.00510 |
| .950 | 2.120 | 9.95940 | -4.94190 | -.00520 | .01940 | 25.00000 | -.08940 | -4.94770 | -.00510 |
| .949 | 3.166 | 9.97820 | -4.94230 | -.00560 | .01940 | 25.00000 | -.10960 | -4.94290 | -.00030 |
| .949 | 4.229 | 9.99050 | -4.93670 | -.00000 | .01940 | 25.00000 | -.12310 | -4.94290 | -.00030 |
| .949 | 6.316 | 9.99150 | -4.93630 | -.00530 | .01940 | 25.00000 | -.14110 | -4.94200 | -.01070 |
| | GRADIENT | -.00489 | .00149 | .00035 | .00000 | -.00000 | .00248 | .00084 | .00084 |

RUN NO. 769/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-08 |
|-------|----------|----------|----------|---------|---------|----------|---------|----------|---------|
| 1.201 | -6.130 | 9.92020 | -4.94150 | .00060 | .01940 | 25.00000 | -.10290 | -4.95250 | -.00990 |
| 1.203 | -2.038 | 9.97430 | -4.94430 | .00350 | .02910 | 25.00000 | -.11640 | -4.95810 | -.00420 |
| 1.199 | -1.003 | 9.98250 | -4.94150 | .00060 | .01940 | 25.00000 | -.11640 | -4.95250 | -.00990 |
| 1.198 | .046 | 10.01800 | -4.94390 | -.00180 | .02910 | 25.00000 | -.12310 | -4.95730 | -.01470 |
| 1.201 | .552 | 10.02000 | -4.94390 | -.00180 | .02910 | 25.00000 | -.12310 | -4.95730 | -.01470 |
| 1.200 | 1.071 | 9.96740 | -4.94150 | .00060 | .01940 | 25.00000 | -.12310 | -4.95250 | -.00990 |
| 1.196 | 2.128 | 10.01000 | -4.94150 | .00060 | .02910 | 25.00000 | -.12310 | -4.95250 | -.00990 |
| 1.199 | 3.172 | 10.01500 | -4.94150 | .00060 | .02910 | 25.00000 | -.12310 | -4.95250 | -.01070 |
| 1.198 | 4.233 | 10.02800 | -4.93620 | .00020 | .02910 | 25.00000 | -.13210 | -4.94200 | -.00510 |
| 1.195 | 6.323 | 10.02300 | -4.93910 | .00300 | .02910 | 25.00000 | -.13210 | -4.94770 | -.00043 |
| | GRADIENT | .00678 | .00094 | -.00022 | -.00006 | -.00000 | -.00111 | .00187 | .00000 |

RUN NO. 762/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-08 |
|-------|----------|----------|----------|---------|--------|----------|---------|----------|---------|
| 1.294 | -6.140 | 10.20200 | -4.94140 | -.01600 | .01940 | 25.00000 | -.10290 | -4.94170 | -.02120 |
| 1.300 | -2.046 | 10.24500 | -4.94190 | -.00520 | .01940 | 25.00000 | -.10960 | -4.94770 | -.00510 |
| 1.300 | -1.003 | 10.25400 | -4.94710 | -.01940 | .01940 | 25.00000 | -.11640 | -4.95250 | -.00990 |
| 1.298 | .052 | 10.14800 | -4.94430 | -.00760 | .01940 | 25.00000 | -.11640 | -4.95250 | -.00990 |
| 1.298 | .561 | 10.15600 | -4.94710 | -.01040 | .01940 | 25.00000 | -.11640 | -4.95250 | -.00990 |
| 1.298 | 1.074 | 10.14000 | -4.94710 | -.01040 | .01940 | 25.00000 | -.11640 | -4.95250 | -.00990 |
| 1.296 | 2.132 | 10.15200 | -4.94710 | -.01040 | .01940 | 25.00000 | -.11640 | -4.95250 | -.00990 |
| 1.296 | 3.192 | 10.11800 | -4.94430 | -.00760 | .01940 | 25.00000 | -.11640 | -4.95250 | -.00990 |
| 1.295 | 4.244 | 10.12500 | -4.94430 | -.00760 | .01940 | 25.00000 | -.11640 | -4.95250 | -.00990 |
| 1.293 | 6.334 | 10.12100 | -4.94230 | -.00560 | .01940 | 25.00000 | -.12310 | -4.94290 | -.00030 |
| | GRADIENT | -.02103 | -.00012 | -.00012 | .00000 | .00000 | -.00067 | .00024 | .00048 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(C2F044) (16 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

RUN NO. 761/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | | | | | | | |
|-------|----------|----------|----------|----------|--------|----------|----------|----------|----------|----------|
| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-18 | AIL-18 | AIL-OB |
| 1.404 | -6.152 | 9.99060 | -4.94740 | -0.0530 | .01940 | 25.00000 | -1.10290 | -4.94710 | -0.0550 | -0.0510 |
| 1.409 | -2.045 | 10.04000 | -4.94470 | -0.0800 | .01940 | 25.00000 | -1.10960 | -4.94170 | -0.1090 | -0.0510 |
| 1.409 | -1.005 | 10.03900 | -4.94190 | -0.0520 | .01940 | 25.00000 | -1.1640 | -4.93610 | -0.0540 | -0.0510 |
| 1.409 | .049 | 10.07000 | -4.94470 | -0.0800 | .01940 | 25.00000 | -1.1640 | -4.94170 | -0.1090 | -0.0510 |
| 1.409 | .556 | 10.07100 | -4.94470 | -0.0800 | .01940 | 25.00000 | -1.1640 | -4.94170 | -0.1090 | -0.0510 |
| 1.407 | 1.072 | 10.05700 | -4.94470 | -0.0800 | .01940 | 25.00000 | -1.1640 | -4.94170 | -0.1090 | -0.0510 |
| 1.406 | 2.139 | 10.09700 | -4.94190 | -0.1080 | .01940 | 25.00000 | -1.1640 | -4.94170 | -0.1090 | -0.1070 |
| 1.404 | 3.183 | 10.10800 | -4.94190 | -0.1080 | .01940 | 25.00000 | -1.1640 | -4.94170 | -0.1090 | -0.0510 |
| 1.404 | 4.256 | 10.07700 | -4.94470 | -0.0800 | .01940 | 25.00000 | -1.1640 | -4.94170 | -0.1090 | -0.1070 |
| 1.404 | 6.356 | 10.07400 | -4.94190 | -0.1080 | .01940 | 25.00000 | -1.2310 | -4.94170 | -0.1090 | -0.1070 |
| 1.402 | GRADIENT | .00929 | .00011 | -0.00048 | .00000 | .00000 | -0.0067 | -0.00037 | -0.00036 | -0.00059 |

PARAMETRIC DATA

ALPHA = 10.000
AILRON = .000
SPOBRK = 25.000
RN/L = 5.000
ELEVON = -5.000
BOFLAP = .000
RUDDER = .000

AMES 118-1-11 OAI45A 01

(C2F045) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

RUN NO. 783/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | | | | | | | |
|------|----------|----------|----------|---------|----------|----------|----------|----------|----------|----------|
| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-18 | AIL-18 | AIL-OB |
| .597 | -6.057 | 10.02600 | 5.00330 | -0.1430 | .00970 | 25.00000 | -0.04220 | 4.99860 | -0.01700 | -0.0160 |
| .597 | -1.995 | 10.01900 | 5.00590 | -0.1700 | .01940 | 25.00000 | -1.14110 | 5.00390 | -0.02240 | -0.0160 |
| .596 | .974 | 10.01500 | 5.00330 | -0.1430 | .00970 | 25.00000 | -1.10960 | 4.99860 | -0.01700 | -0.0160 |
| .596 | .037 | 10.02200 | 5.00330 | -0.1430 | .00970 | 25.00000 | -1.2310 | 4.99860 | -0.01700 | -0.0160 |
| .596 | .555 | 10.02400 | 5.00330 | -0.1430 | .00970 | 25.00000 | -1.2310 | 4.99860 | -0.01700 | -0.0160 |
| .595 | 1.059 | 10.01000 | 5.00330 | -0.1430 | .00970 | 25.00000 | -1.2310 | 4.99860 | -0.01700 | -0.0160 |
| .595 | 2.094 | 10.02700 | 5.00330 | -0.1430 | .00970 | 25.00000 | -1.2310 | 4.99860 | -0.01700 | -0.0160 |
| .597 | 3.121 | 10.03700 | 5.00330 | -0.1430 | .00970 | 25.00000 | -0.06920 | 4.99860 | -0.01700 | -0.0160 |
| .595 | 4.164 | 10.05400 | 5.00330 | -0.1430 | .00970 | 25.00000 | -1.10290 | 4.99860 | -0.01700 | -0.0160 |
| .597 | 6.229 | 10.06000 | 5.00330 | -0.1430 | .00970 | 25.00000 | -0.0065 | 4.99860 | -0.0055 | -0.00000 |
| .597 | GRADIENT | .00537 | -0.00026 | .00027 | -0.00098 | .00000 | .00665 | -0.00054 | .00000 | .00000 |

PARAMETRIC DATA

ALPHA = 10.000
AILRON = .000
SPOBRK = 25.000
RN/L = 5.000
ELEVON = 5.000
BOFLAP = .000
RUDDER = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO

LREF = 474.8100 INCHES YMRP = .0000 IN. YO

BREF = 936.8800 INCHES ZMRP = 375.0000 IN. ZO

SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = 5.000

AIRLON = .000 BOFLAP = .000

SPOBRK = 25.000 RUDDER = .000

RN/L = 5.000

RUN NO. 780/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AIRLON | BOFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIRL-1B | AIRL-0B |
|------|----------|----------|---------|---------|--------|----------|---------|---------|---------|---------|---------|
| .798 | -6.102 | 9.96050 | 4.99780 | -.01360 | .01940 | 25.00000 | -.03550 | 5.00390 | 4.99160 | -.02240 | -.00490 |
| .797 | -2.024 | 9.99680 | 4.99780 | -.01360 | .00970 | 25.00000 | -.10290 | 5.00390 | 4.99160 | -.02240 | -.00490 |
| .799 | -.992 | 9.95410 | 4.99780 | -.01360 | .01940 | 25.00000 | -.12310 | 5.00390 | 4.99160 | -.02240 | -.00490 |
| .797 | .050 | 9.96150 | 4.99510 | -.01100 | .01940 | 25.00000 | -.12310 | 4.99860 | 4.99160 | -.01700 | -.00490 |
| .800 | .553 | 9.96830 | 4.99800 | -.00810 | .01940 | 25.00000 | -.12310 | 5.00440 | 4.99160 | -.01120 | -.00490 |
| .797 | 1.067 | 9.96540 | 4.99510 | -.01100 | .01940 | 25.00000 | -.13210 | 4.99860 | 4.99160 | -.01700 | -.00490 |
| .799 | 2.111 | 9.99280 | 4.99800 | -.00810 | .01940 | 25.00000 | -.08940 | 5.00440 | 4.99160 | -.01120 | -.00490 |
| .798 | 3.155 | 10.01500 | 5.00040 | -.00560 | .01940 | 25.00000 | -.10960 | 5.00440 | 4.99640 | -.01120 | -.00010 |
| .798 | 4.209 | 10.04800 | 5.00310 | -.00830 | .01940 | 25.00000 | -.12310 | 5.00970 | 4.99640 | -.01660 | -.00010 |
| .798 | 6.289 | 10.04700 | 5.00040 | -.00560 | .00970 | 25.00000 | -.12310 | 5.00440 | 4.99640 | -.01120 | -.00010 |
| .798 | GRADIENT | .01084 | .00083 | .00116 | .00097 | -.00000 | .00013 | .00081 | .00084 | .00147 | .00084 |

RUN NO. 775/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AIRLON | BOFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIRL-1B | AIRL-0B |
|------|----------|----------|---------|---------|--------|----------|---------|---------|---------|---------|---------|
| .901 | -6.132 | 9.97570 | 5.00550 | -.01170 | .01940 | 25.00000 | -.16800 | 5.00390 | 5.00700 | -.02240 | -.00100 |
| .902 | -2.031 | 9.99420 | 5.00310 | -.01410 | .01940 | 25.00000 | -.15900 | 5.00390 | 5.00220 | -.02240 | -.00580 |
| .900 | -.995 | 9.99170 | 5.00020 | -.01120 | .01940 | 25.00000 | -.09620 | 5.00390 | 4.99640 | -.02240 | -.00010 |
| .899 | .050 | 10.00700 | 5.00020 | -.01120 | .01940 | 25.00000 | -.11640 | 5.00390 | 4.99640 | -.02240 | -.00010 |
| .900 | .557 | 9.97020 | 5.00310 | -.01410 | .01940 | 25.00000 | -.12310 | 5.00390 | 5.00220 | -.02240 | -.00580 |
| .901 | 1.071 | 9.95230 | 5.00020 | -.01120 | .01940 | 25.00000 | -.12310 | 5.00390 | 4.99640 | -.02240 | -.00010 |
| .898 | 2.120 | 9.95870 | 5.00310 | -.01410 | .01940 | 25.00000 | -.12310 | 5.00390 | 5.00220 | -.02240 | -.00580 |
| .898 | 3.168 | 9.98570 | 5.00260 | -.00880 | .01940 | 25.00000 | -.12310 | 5.00390 | 5.00130 | -.02240 | -.00480 |
| .899 | 4.230 | 10.00200 | 5.00010 | -.01700 | .01940 | 25.00000 | -.15000 | 4.99810 | 5.00220 | -.02820 | -.00580 |
| .897 | 6.312 | 9.99460 | 5.00260 | -.01460 | .01940 | 25.00000 | -.17690 | 4.99810 | 5.00700 | -.02820 | -.00100 |
| .897 | GRADIENT | -.00100 | -.00007 | -.00021 | .00000 | .00000 | -.00122 | -.00061 | .00049 | -.00061 | .00020 |

RUN NO. 772/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AIRLON | BOFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIRL-1B | AIRL-0B |
|------|----------|----------|---------|---------|--------|----------|---------|---------|---------|---------|---------|
| .950 | -6.133 | 9.96660 | 4.99990 | -.01680 | .01940 | 25.00000 | -.11640 | 5.00340 | 4.99640 | -.03360 | -.00010 |
| .951 | -2.044 | 10.01600 | 4.99750 | -.01920 | .01940 | 25.00000 | -.13210 | 5.00340 | 4.99160 | -.03360 | -.00490 |
| .952 | -1.005 | 10.01800 | 4.99750 | -.01920 | .01940 | 25.00000 | -.13210 | 5.00340 | 4.99160 | -.03360 | -.00490 |
| .949 | .046 | 10.02300 | 4.99990 | -.01680 | .01940 | 25.00000 | -.12310 | 5.00340 | 4.99640 | -.03360 | -.00010 |
| .950 | .554 | 10.00600 | 4.99750 | -.01920 | .01940 | 25.00000 | -.11640 | 5.00340 | 4.99160 | -.03360 | -.00490 |
| .951 | 1.070 | 9.98590 | 4.99750 | -.01920 | .01940 | 25.00000 | -.12310 | 5.00340 | 4.99160 | -.03360 | -.00490 |
| .950 | 2.123 | 9.99430 | 4.99750 | -.01920 | .01940 | 25.00000 | -.12310 | 5.00340 | 4.99640 | -.03360 | -.00010 |
| .949 | 3.174 | 10.01300 | 4.99990 | -.01680 | .01940 | 25.00000 | -.12310 | 5.00340 | 4.99640 | -.03360 | -.00010 |
| .951 | 4.237 | 10.03200 | 5.00260 | -.01950 | .01940 | 25.00000 | -.10960 | 5.00880 | 5.00220 | -.03690 | -.00580 |
| .949 | 6.323 | 10.02100 | 5.00280 | -.01970 | .01940 | 25.00000 | -.11640 | 5.00340 | 5.00220 | -.03360 | -.00580 |
| .949 | GRADIENT | .00043 | .00062 | .00006 | .00000 | .00000 | .00279 | .00056 | .00068 | -.00055 | .00068 |

DATE 10 MAR 80

OA145 TABULATED FORCE DATA
AMES 118-1-11 OA145A 01

PAGE 1014
(CF045) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 1076.6800 IN. XO ALPHA = 10.000 ELEVON = 5.000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BDFLAP = .000
BREF = 936.6800 INCHES ZMRP = .0000 IN. ZO SPOBRK = 25.000 RUDDER = .000
SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 768/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-IB | AIL-IB | ELV-OB | AIL-OB |
|-------|----------|----------|---------|---------|--------|----------|---------|---------|---------|---------|---------|
| 1.198 | -6.137 | 9.92170 | 4.98710 | -.02430 | .01940 | 25.00000 | -.09620 | 4.99230 | -.03400 | 4.98190 | -.01460 |
| 1.200 | -2.045 | 10.00500 | 4.99970 | -.01750 | .01940 | 25.00000 | -.10960 | 4.99230 | -.03400 | 5.00700 | -.00100 |
| 1.199 | -1.008 | 10.02600 | 4.99970 | -.01750 | .02910 | 25.00000 | -.11640 | 4.99230 | -.03400 | 5.00700 | -.00100 |
| 1.201 | .042 | 10.04600 | 4.99970 | -.01750 | .01940 | 25.00000 | -.11640 | 4.99230 | -.03400 | 5.00700 | -.00100 |
| 1.199 | .549 | 10.05300 | 4.99720 | -.01990 | .02910 | 25.00000 | -.11640 | 4.99230 | -.03400 | 5.00220 | -.00580 |
| 1.200 | 1.063 | 10.03600 | 4.99970 | -.01750 | .02910 | 25.00000 | -.12310 | 4.99230 | -.03400 | 5.00700 | -.00100 |
| 1.200 | 2.122 | 10.04900 | 4.99970 | -.01750 | .02910 | 25.00000 | -.12310 | 4.99230 | -.03400 | 5.00700 | -.00100 |
| 1.197 | 3.173 | 10.06200 | 4.99970 | -.01750 | .02910 | 25.00000 | -.12310 | 4.99230 | -.03400 | 5.00700 | -.00100 |
| 1.197 | 4.239 | 10.05900 | 4.99970 | -.01750 | .02910 | 25.00000 | -.12310 | 4.99230 | -.03400 | 5.00700 | -.00100 |
| 1.197 | 6.339 | 10.02000 | 4.99970 | -.01750 | .02910 | 25.00000 | -.12310 | 4.99230 | -.03400 | 5.00700 | -.00100 |
| 1.195 | GRADIENT | .00783 | .00004 | .00004 | .00127 | .00000 | -.00185 | .00000 | .00000 | .00007 | .00007 |

RUN NO. 763/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-IB | AIL-IB | ELV-OB | AIL-OB |
|-------|----------|----------|---------|---------|--------|----------|---------|---------|---------|---------|---------|
| 1.293 | -6.163 | 9.99040 | 5.00550 | -.01170 | .01940 | 25.00000 | -.10290 | 5.00390 | -.02240 | 5.00700 | -.00100 |
| 1.299 | -2.015 | 10.01500 | 5.00550 | -.01170 | .01940 | 25.00000 | -.10960 | 5.00390 | -.02240 | 5.00700 | -.00100 |
| 1.298 | -.939 | 10.02600 | 5.00550 | -.01170 | .01940 | 25.00000 | -.10960 | 5.00390 | -.02240 | 5.00700 | -.00100 |
| 1.298 | .152 | 10.02300 | 5.00260 | -.00880 | .01940 | 25.00000 | -.11640 | 5.00390 | -.02240 | 5.00130 | -.00480 |
| 1.298 | .684 | 9.97990 | 4.99990 | -.00610 | .01940 | 25.00000 | -.11640 | 4.99860 | -.01700 | 5.00130 | -.00480 |
| 1.297 | 1.229 | 9.94910 | 5.00260 | -.00880 | .01940 | 25.00000 | -.11640 | 5.00390 | -.02240 | 5.00700 | -.00100 |
| 1.299 | 2.297 | 9.89860 | 5.00280 | -.00900 | .01940 | 25.00000 | -.11640 | 4.99860 | -.01700 | 5.00700 | -.00100 |
| 1.297 | 3.358 | 9.85980 | 5.00280 | -.00900 | .01940 | 25.00000 | -.11640 | 4.99860 | -.01700 | 5.00700 | -.00100 |
| 1.296 | 4.408 | 9.87490 | 4.99990 | -.01190 | .01940 | 25.00000 | -.12310 | 4.99270 | -.02290 | 5.00700 | -.00100 |
| 1.296 | 6.456 | 9.81690 | 4.99990 | -.01190 | .01940 | 25.00000 | -.12310 | 4.99270 | -.02290 | 5.00700 | -.00100 |
| 1.292 | GRADIENT | -.02944 | -.00068 | .00010 | .00000 | .00000 | -.00110 | -.00160 | .00043 | .00024 | -.00025 |

RUN NO. 760/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-IB | AIL-IB | ELV-OB | AIL-OB |
|-------|----------|----------|---------|---------|---------|----------|---------|---------|---------|---------|---------|
| 1.398 | -6.152 | 10.00800 | 4.99460 | -.01150 | .01940 | 25.00000 | -.10290 | 4.99270 | -.02290 | 4.99640 | -.00010 |
| 1.405 | -2.052 | 10.07000 | 4.99220 | -.01390 | .01940 | 25.00000 | -.10960 | 4.99270 | -.02290 | 4.99160 | -.00490 |
| 1.406 | -1.011 | 10.07500 | 4.99500 | -.01680 | .01940 | 25.00000 | -.10960 | 4.99270 | -.02290 | 4.99730 | -.01070 |
| 1.406 | .046 | 10.09100 | 4.99510 | -.01100 | .03880 | 25.00000 | -.10960 | 4.99860 | -.01700 | 4.99160 | -.00490 |
| 1.406 | .555 | 10.09300 | 4.99500 | -.01680 | .01940 | 25.00000 | -.11640 | 4.99270 | -.02290 | 4.99730 | -.01070 |
| 1.406 | 1.073 | 10.07800 | 4.99500 | -.01680 | .01940 | 25.00000 | -.10960 | 4.99270 | -.02290 | 4.99730 | -.01070 |
| 1.406 | 2.132 | 10.09800 | 4.99500 | -.01680 | .01940 | 25.00000 | -.11640 | 4.99270 | -.02290 | 4.99730 | -.01070 |
| 1.404 | 3.189 | 10.11800 | 4.99210 | -.01970 | .01940 | 25.00000 | -.10960 | 4.98690 | -.02870 | 4.99730 | -.01070 |
| 1.405 | 4.248 | 10.12900 | 4.99210 | -.01970 | .01940 | 25.00000 | -.11640 | 4.98690 | -.02870 | 4.99730 | -.01070 |
| 1.405 | 6.354 | 10.11600 | 4.99210 | -.01970 | .01940 | 25.00000 | -.12310 | 4.98690 | -.02870 | 4.99730 | -.01070 |
| 1.404 | GRADIENT | .00915 | -.00023 | -.00097 | -.00061 | .00000 | -.00085 | -.00119 | .00074 | .00074 | -.00075 |

OAIW5 TABULATED FORCE DATA

DATE 10 MAR 80

(C2F046) (16 JUL 77)

AMES 118-1-11 OAIW5A 01

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = 3.000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 264/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-08 | AIL-0B |
|------|----------|---------|---------|---------|--------|----------|--------|---------|---------|---------|
| .598 | -5.793 | -.03450 | .05650 | 2.93250 | .01000 | 25.00000 | .00000 | .03180 | 2.92250 | 2.94260 |
| .600 | -.898 | -.00150 | .05650 | 2.93250 | .01000 | 25.00000 | .00000 | .03180 | 2.92250 | 2.94260 |
| .599 | 1.705 | .01020 | .05400 | 2.93500 | .01000 | 25.00000 | .00000 | .02690 | 2.92250 | 2.94750 |
| .598 | 4.213 | .02210 | .05400 | 2.93500 | .01000 | 25.00000 | .00000 | .02690 | 2.92250 | 2.94750 |
| .597 | 6.232 | .06580 | .05400 | 2.93500 | .01000 | 25.00000 | .00000 | .02690 | 2.92250 | 2.94750 |
| .598 | 7.275 | .06060 | .05620 | 2.93280 | .01000 | 25.00000 | .00000 | .02690 | 2.91810 | 2.94750 |
| .597 | 9.309 | .07530 | .05610 | 2.92780 | .01000 | 25.00000 | .00000 | .02670 | 2.91810 | 2.94750 |
| .597 | 11.363 | .08840 | .05130 | 2.93220 | .01000 | 25.00000 | .00000 | .02690 | 2.91700 | 2.94750 |
| .597 | 14.457 | .11100 | .05130 | 2.93220 | .01000 | 25.00000 | .00000 | .02690 | 2.91700 | 2.94750 |
| | GRADIENT | .00462 | -.00049 | .00049 | .00000 | .00000 | .00000 | -.00096 | .00000 | .00096 |

RUN NO. 250/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-08 | AIL-0B |
|------|----------|---------|---------|---------|--------|----------|---------|--------|---------|---------|
| .802 | -5.827 | -.03000 | .05170 | 2.93260 | .01000 | 25.00000 | .00840 | .01660 | 2.92800 | 2.93720 |
| .801 | -.827 | .00150 | .05610 | 2.93330 | .01000 | 25.00000 | -.02310 | .01690 | 2.91930 | 2.94730 |
| .800 | 1.693 | .01320 | .05400 | 2.93550 | .01000 | 25.00000 | -.03350 | .01690 | 2.92360 | 2.94730 |
| .799 | 4.212 | .02010 | .05400 | 2.93550 | .01000 | 25.00000 | .00000 | .01690 | 2.92360 | 2.94730 |
| .800 | 6.262 | .05050 | .05140 | 2.93290 | .01000 | 25.00000 | .00000 | .01170 | 2.92360 | 2.94210 |
| .798 | 7.289 | .06060 | .05140 | 2.93290 | .01000 | 25.00000 | .01700 | .01170 | 2.92360 | 2.94210 |
| .799 | 9.315 | .07210 | .05380 | 2.93040 | .01000 | 25.00000 | .00000 | .01660 | 2.92360 | 2.93720 |
| .800 | 11.385 | .08240 | .05380 | 2.93040 | .01000 | 25.00000 | -.02510 | .01660 | 2.92360 | 2.93720 |
| .799 | 14.449 | .09260 | .05380 | 2.93040 | .01000 | 25.00000 | .00498 | .00000 | .00085 | .00000 |
| | GRADIENT | .00369 | -.00042 | .00044 | .00000 | .00000 | .00498 | .00000 | .00085 | .00000 |

RUN NO. 197/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-08 | AIL-0B |
|------|----------|---------|---------|---------|---------|----------|---------|---------|---------|---------|
| .902 | -4.826 | -.03300 | -.05500 | 2.97530 | -.08040 | 25.00000 | -.10040 | -.13080 | 2.92770 | 3.02280 |
| .901 | 374 | .09770 | -.05220 | 2.97800 | -.08040 | 25.00000 | -.10040 | -.13080 | 2.93350 | 3.02280 |
| .900 | 2.924 | .01680 | -.05510 | 2.98090 | -.08040 | 25.00000 | -.12550 | -.13080 | 2.93900 | 3.02280 |
| .899 | 5.484 | .04540 | -.05510 | 2.98090 | -.09050 | 25.00000 | -.12550 | -.13080 | 2.93900 | 3.02280 |
| .900 | 7.520 | .05930 | -.05510 | 2.98090 | -.08040 | 25.00000 | -.12550 | -.13080 | 2.93900 | 3.02280 |
| .901 | 8.526 | .06470 | -.05220 | 2.97800 | -.08040 | 25.00000 | -.10040 | -.13080 | 2.93350 | 3.02280 |
| .898 | 10.558 | .07690 | -.05510 | 2.98090 | -.08040 | 25.00000 | -.06590 | -.13080 | 2.93900 | 3.02280 |
| .899 | 12.646 | .08000 | -.05760 | 2.97830 | -.08040 | 25.00000 | -.06590 | -.13590 | 2.93900 | 3.01770 |
| .901 | 15.735 | .10420 | -.06040 | 2.97560 | -.08040 | 25.00000 | -.05860 | -.13590 | 2.93350 | 3.01770 |
| | GRADIENT | .00563 | .00007 | .00069 | -.00000 | .00000 | -.00276 | .00000 | .00140 | .00000 |

OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

DATE 10 MAR 80

(C2F046) (16 JUL 77)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

BETA = .000 ELEVON = .000
AILRON = 3.000 BDFLAP = .000
SPOBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 194/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|---------|---------|----------|---------|---------|---------|---------|
| .955 | -4.735 | .14810 | -.06010 | 2.96980 | -.07040 | 25.00000 | -.01670 | -.14130 | 2.91650 | 3.02300 |
| .954 | .477 | .12170 | -.05760 | 2.97240 | -.07040 | 25.00000 | -.01670 | -.13610 | 2.91650 | 3.02820 |
| .954 | 3.079 | .12420 | -.05760 | 2.97240 | -.07040 | 25.00000 | -.00840 | -.13610 | 2.91650 | 3.02820 |
| .953 | 5.609 | .09250 | -.05760 | 2.97240 | -.07040 | 25.00000 | -.02510 | -.13610 | 2.91650 | 3.02820 |
| .954 | 7.628 | .09630 | -.05760 | 2.97240 | -.08040 | 25.00000 | -.03350 | -.14130 | 2.92220 | 3.02300 |
| .956 | 8.699 | .10010 | -.06300 | 2.97260 | -.07040 | 25.00000 | -.07530 | -.14130 | 2.92220 | 3.02300 |
| .950 | 10.739 | .10810 | -.06300 | 2.97260 | -.08040 | 25.00000 | -.15060 | -.14130 | 2.92220 | 3.02300 |
| .950 | 12.781 | .12310 | -.06300 | 2.97260 | -.08040 | 25.00000 | -.10870 | -.14130 | 2.91670 | 3.02300 |
| .953 | 15.825 | .16070 | -.06570 | 2.96990 | -.08040 | 25.00000 | -.00091 | .00071 | -.00000 | .00071 |
| | GRADIENT | -.00335 | .00034 | .00036 | .00000 | .00000 | .00000 | | | |

RUN NO. 431/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|---------|---------|---------|---------|----------|---------|---------|---------|---------|
| 1.100 | -5.065 | -.04270 | .03730 | 2.96790 | .01940 | 25.00000 | -.10290 | -.01760 | 2.93350 | 3.00240 |
| 1.101 | -.081 | -.00030 | .03730 | 2.96790 | .00970 | 25.00000 | -.10960 | -.01760 | 2.93350 | 3.00240 |
| 1.098 | 2.535 | .00760 | .02960 | 2.96020 | .00970 | 25.00000 | -.10960 | -.03310 | 2.93350 | 2.98690 |
| 1.096 | 5.135 | .03090 | .02960 | 2.96020 | .00000 | 25.00000 | -.10290 | -.03820 | 2.93350 | 2.98180 |
| 1.099 | 7.232 | .02850 | .02700 | 2.95760 | .00000 | 25.00000 | -.10290 | -.03310 | 2.93350 | 2.98690 |
| 1.098 | 8.215 | .02320 | .02960 | 2.96020 | .00000 | 25.00000 | -.10290 | -.03820 | 2.93350 | 2.98180 |
| 1.093 | 10.263 | .01900 | .02700 | 2.95760 | .00000 | 25.00000 | -.09620 | -.04340 | 2.92800 | 2.97660 |
| 1.100 | 12.320 | .01530 | .02170 | 2.95230 | .00970 | 25.00000 | -.10290 | -.04340 | 2.92800 | 2.97660 |
| 1.099 | 15.373 | .01420 | .02170 | 2.95230 | .00000 | 25.00000 | -.10290 | -.04340 | 2.92800 | 2.97660 |
| | GRADIENT | .00302 | -.00294 | -.00294 | -.00000 | -.00000 | .00000 | -.00593 | -.00000 | -.00593 |

RUN NO. 229/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|---------|---------|---------|---------|----------|--------|---------|---------|---------|
| 1.199 | -5.802 | -.04360 | .06950 | 2.94120 | .01000 | 25.00000 | .05110 | .03690 | 2.93470 | 2.94780 |
| 1.202 | -.803 | -.00570 | .06680 | 2.93850 | .01000 | 25.00000 | .04260 | .03690 | 2.92920 | 2.94780 |
| 1.198 | 1.758 | .00540 | .06430 | 2.94090 | .01000 | 25.00000 | .05110 | .03200 | 2.92920 | 2.95270 |
| 1.199 | 4.330 | .00980 | .06420 | 2.93590 | .01000 | 25.00000 | .06820 | .03180 | 2.92920 | 2.94260 |
| 1.196 | 6.327 | .04630 | .06170 | 2.93830 | .01000 | 25.00000 | .06820 | .02690 | 2.92920 | 2.94750 |
| 1.198 | 7.347 | .04950 | .06170 | 2.93830 | .01000 | 25.00000 | .07670 | .02690 | 2.92920 | 2.94750 |
| 1.200 | 9.451 | .05630 | .06170 | 2.93830 | .01000 | 25.00000 | .06820 | .02690 | 2.92920 | 2.94750 |
| 1.198 | 11.487 | .06560 | .05900 | 2.93560 | .01000 | 25.00000 | .06820 | .02690 | 2.92360 | 2.94750 |
| 1.193 | 14.655 | .04880 | .05900 | 2.93560 | .02000 | 25.00000 | .08520 | .02690 | 2.92360 | 2.94750 |
| | GRADIENT | .00302 | -.00051 | -.00051 | -.00000 | -.00000 | .00499 | -.00099 | .00000 | -.00102 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

(C2F046) (16 JUL 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = 3.000 BOFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 220/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|----------|---------|---------|--------|----------|---------|---------|---------|---------|---------|
| 1.297 | -5.057 | -0.0170 | .06680 | 2.93850 | .01000 | 25.00000 | -.02510 | .09660 | .03690 | 2.92920 | 2.94780 |
| 1.295 | .167 | -0.00230 | .06430 | 2.94090 | .01000 | 25.00000 | -.01670 | .09660 | .03200 | 2.92820 | 2.95270 |
| 1.295 | 2.721 | .00720 | .06140 | 2.93310 | .02000 | 25.00000 | -.02510 | .09100 | .03180 | 2.92360 | 2.94260 |
| 1.294 | 5.260 | .03410 | .05900 | 2.93560 | .02000 | 25.00000 | -.01670 | .09100 | .02690 | 2.92360 | 2.94750 |
| 1.295 | 7.305 | .04870 | .05900 | 2.93560 | .02000 | 25.00000 | -.00840 | .09100 | .02690 | 2.92360 | 2.94750 |
| 1.297 | 8.339 | .05240 | .05900 | 2.93310 | .02000 | 25.00000 | -.01670 | .09100 | .03180 | 2.92360 | 2.94260 |
| 1.294 | 10.382 | .06470 | .05900 | 2.93310 | .02000 | 25.00000 | -.02510 | .09100 | .02690 | 2.92360 | 2.94750 |
| 1.292 | 12.454 | .06220 | .05900 | 2.93560 | .02000 | 25.00000 | -.02510 | .09100 | .02690 | 2.92360 | 2.94750 |
| 1.294 | 15.557 | .07160 | .05620 | 2.93280 | .02000 | 25.00000 | -.03350 | .08550 | .02690 | 2.91810 | 2.94750 |
| | GRADIENT | .00372 | -.00114 | -.00305 | .00392 | .00000 | -.00329 | -.00219 | -.00008 | -.00219 | -.00395 |

RUN NO. 211/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|----------|--------|---------|--------|----------|---------|--------|---------|---------|---------|
| 1.401 | -5.109 | -0.03070 | .05650 | 2.93800 | .01000 | 25.00000 | -.04180 | .09100 | .02200 | 2.92360 | 2.95240 |
| 1.402 | .146 | -0.00610 | .05650 | 2.93800 | .01000 | 25.00000 | -.04180 | .09100 | .02200 | 2.92360 | 2.95240 |
| 1.400 | 2.691 | .00460 | .05650 | 2.93800 | .01000 | 25.00000 | -.04180 | .09100 | .02200 | 2.92360 | 2.95240 |
| 1.400 | 5.222 | .03490 | .05650 | 2.93800 | .01000 | 25.00000 | -.05020 | .08670 | .02200 | 2.92800 | 2.95240 |
| 1.400 | 7.277 | .04750 | .05440 | 2.94020 | .01000 | 25.00000 | -.04180 | .08120 | .02200 | 2.92250 | 2.95240 |
| 1.400 | 8.339 | .05080 | .05160 | 2.93740 | .01000 | 25.00000 | -.04180 | .08120 | .02200 | 2.92250 | 2.95240 |
| 1.398 | 10.390 | .06380 | .05160 | 2.93740 | .01000 | 25.00000 | -.04180 | .08120 | .02200 | 2.92250 | 2.95240 |
| 1.399 | 12.461 | .07270 | .05160 | 2.93740 | .01000 | 25.00000 | -.04180 | .08120 | .02200 | 2.92250 | 2.95240 |
| 1.397 | 15.528 | .06040 | .05160 | 2.93740 | .02000 | 25.00000 | .03410 | .08120 | .02200 | 2.92250 | 2.95240 |
| | GRADIENT | .00420 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.00000 | .00000 | .00000 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(C2F047) (22 JUL 77)

AMES 118-1-11 OAI45A 01

PARAMETRIC DATA

REFERENCE DATA

SREF = 2630.0000 SQ.FT. XMRP = 1075.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

BETA = .000 ELEVON = .000
AILRON = 5.000 BOFLAP = .000
SPOBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 0/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-08 | AIL-08 |
|------|----------|---------|---------|---------|--------|----------|---------|--------|---------|
| .599 | -5.804 | -0.1310 | .04230 | 4.92050 | .01000 | 25.00000 | -.07530 | .07610 | 4.89170 |
| .601 | -8.849 | .00310 | .04530 | 4.92340 | .01000 | 25.00000 | -.07530 | .07170 | 4.89290 |
| .599 | 1.678 | .01420 | .04300 | 4.92570 | .01000 | 25.00000 | -.07530 | .07170 | 4.89750 |
| .598 | 4.181 | .02400 | .04530 | 4.92340 | .01000 | 25.00000 | -.07530 | .07170 | 4.89290 |
| .597 | 6.206 | .06070 | .04530 | 4.92090 | .01000 | 25.00000 | -.08370 | .06680 | 4.89290 |
| .598 | 7.246 | .08570 | .04290 | 4.92110 | .01000 | 25.00000 | -.08370 | .07610 | 4.89290 |
| .597 | 9.316 | .08170 | .04750 | 4.92110 | .01000 | 25.00000 | -.09200 | .07610 | 4.89290 |
| .598 | 11.399 | .09340 | .04750 | 4.92110 | .01000 | 25.00000 | -.09200 | .07610 | 4.89290 |
| | GRADIENT | .00415 | -.00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 |

RUN NO. 0/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-08 | AIL-08 |
|------|----------|---------|---------|---------|--------|----------|---------|--------|---------|
| .801 | -5.822 | -0.2160 | .03600 | 4.92780 | .00000 | 25.00000 | -.10870 | .06660 | 4.90670 |
| .800 | -8.827 | .00550 | .03830 | 4.92550 | .00000 | 25.00000 | -.10870 | .06680 | 4.90210 |
| .800 | 1.696 | .01850 | .03540 | 4.92260 | .00000 | 25.00000 | -.10870 | .06680 | 4.89630 |
| .800 | 4.227 | .02580 | .03540 | 4.92260 | .00000 | 25.00000 | -.10870 | .06680 | 4.89630 |
| .797 | 6.266 | .05560 | .03600 | 4.92780 | .00000 | 25.00000 | -.10870 | .06240 | 4.90210 |
| .800 | 7.281 | .06620 | .03350 | 4.92540 | .00000 | 25.00000 | -.10870 | .06200 | 4.90670 |
| .799 | 9.340 | .07850 | .03290 | 4.92020 | .00000 | 25.00000 | -.04180 | .06200 | 4.89630 |
| .797 | 11.392 | .08820 | .03580 | 4.92310 | .00000 | 25.00000 | -.03350 | .06200 | 4.90210 |
| .799 | 14.460 | .09820 | .03060 | 4.92250 | .01000 | 25.00000 | -.04180 | .06200 | 4.90210 |
| | GRADIENT | .00402 | -.00057 | -.00057 | .00000 | -.00000 | .01821 | .00000 | -.00115 |

RUN NO. 0/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-08 | AIL-08 |
|------|----------|---------|---------|---------|---------|----------|--------|---------|---------|
| .901 | -4.753 | -0.1320 | -.09890 | 4.99780 | -.08040 | 25.00000 | .00000 | -.13690 | 4.89150 |
| .902 | .488 | .00510 | -.09920 | 5.00290 | -.09050 | 25.00000 | .00000 | -.13200 | 4.89690 |
| .901 | 3.012 | .02000 | -.09920 | 5.00290 | -.09050 | 25.00000 | .00000 | -.13200 | 4.89690 |
| .898 | 5.525 | .04980 | -.09920 | 5.00290 | -.09050 | 25.00000 | .00000 | -.13200 | 4.89690 |
| .901 | 7.564 | .06330 | -.10160 | 5.00050 | -.08040 | 25.00000 | .00000 | -.13690 | 4.89690 |
| .898 | 8.599 | .06840 | -.10160 | 5.00050 | -.08040 | 25.00000 | .00000 | -.13690 | 4.89690 |
| .901 | 10.646 | .07940 | -.09890 | 4.99780 | -.08040 | 25.00000 | .00000 | -.13690 | 4.89150 |
| .900 | 12.718 | .08180 | -.10450 | 4.99760 | -.08040 | 25.00000 | .00000 | -.13690 | 4.89100 |
| .900 | 15.793 | .10820 | -.10450 | 4.99760 | -.07040 | 25.00000 | .00000 | -.13690 | 4.89100 |
| | GRADIENT | .00416 | -.00004 | .00070 | -.00140 | -.00000 | .00000 | .00068 | -.00075 |

QAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(C2F047) (22 JUL 77)

AMES 118-1-11 QAI45A 01

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500
 BETA = .000
 AILRON = .000
 SPOBRK = .000
 RUDDER = .000
 ELEVON = .000
 BOFLAP = .000
 RN/L = .000

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|---------|---------|---------|--------|----------|--------|---------|---------|---------|---------|
| 1.202 | -5.874 | -.03620 | .03950 | 4.91760 | .01000 | 25.00000 | .06820 | .00730 | .07170 | 4.88130 | 4.95380 |
| 1.202 | -.829 | -.00360 | .03720 | 4.91980 | .01000 | 25.00000 | .06820 | .00730 | .06720 | 4.88130 | 4.95830 |
| 1.198 | 1.730 | .00620 | .03260 | 4.91960 | .01000 | 25.00000 | .07670 | .00730 | .05790 | 4.88130 | 4.95790 |
| 1.199 | 4.288 | .00970 | .02460 | 4.92170 | .01000 | 25.00000 | .06820 | -.00310 | .05240 | 4.88010 | 4.96340 |
| 1.193 | 6.304 | .04720 | .02460 | 4.92170 | .01000 | 25.00000 | .08520 | -.00310 | .05240 | 4.87550 | 4.96890 |
| 1.198 | 7.325 | .05040 | .02420 | 4.92220 | .01000 | 25.00000 | .08520 | -.00310 | .05790 | 4.88010 | 4.97440 |
| 1.200 | 9.397 | .05720 | .02740 | 4.91900 | .01000 | 25.00000 | .06820 | -.00310 | .04140 | 4.87430 | 4.96890 |
| 1.200 | 11.452 | .06510 | .01910 | 4.92720 | .01000 | 25.00000 | .06820 | -.00890 | .04690 | 4.87430 | 4.96890 |
| 1.198 | 14.608 | .05220 | .01900 | 4.92160 | .01000 | 25.00000 | .00000 | -.00203 | -.00289 | -.00023 | .00100 |
| | GRADIENT | .00260 | -.00246 | .00037 | .00000 | -.00000 | .00000 | | | | |

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|---------|---------|---------|---------|----------|---------|---------|---------|---------|---------|
| 1.296 | -5.885 | -.02810 | .03340 | 4.93050 | .02000 | 25.00000 | -.03350 | .01430 | .05240 | 4.89750 | 4.96340 |
| 1.297 | -.827 | -.00960 | .02800 | 4.92510 | .02000 | 25.00000 | -.03350 | .00850 | .04750 | 4.89170 | 4.95850 |
| 1.296 | 1.701 | .00750 | .02530 | 4.92790 | .02000 | 25.00000 | -.03350 | .00850 | .04200 | 4.89170 | 4.96400 |
| 1.295 | 4.253 | .00630 | .02530 | 4.93020 | .02000 | 25.00000 | -.03350 | .00390 | .04200 | 4.89630 | 4.96400 |
| 1.298 | 6.279 | .04570 | .02300 | 4.93020 | .02000 | 25.00000 | -.04180 | .00390 | .04200 | 4.89630 | 4.96400 |
| 1.296 | 7.304 | .04890 | .02300 | 4.93020 | .02000 | 25.00000 | -.04180 | .00390 | .04200 | 4.89630 | 4.96400 |
| 1.295 | 9.359 | .05710 | .02300 | 4.93000 | .02000 | 25.00000 | -.04180 | .00190 | .03550 | 4.89050 | 4.96950 |
| 1.295 | 11.479 | .06610 | .01730 | 4.93000 | .02000 | 25.00000 | -.04180 | -.00190 | .04200 | 4.89050 | 4.96400 |
| 1.295 | 14.576 | .04920 | .02010 | 4.92730 | .02000 | 25.00000 | -.03350 | -.00190 | -.00108 | -.00000 | .00108 |
| | GRADIENT | .00312 | -.00053 | .00055 | -.00000 | .00000 | .00000 | | | | |

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|--------|---------|--------|---------|--------|----------|--------|---------|--------|---------|---------|
| 1.404 | -5.157 | -.03890 | .03300 | 4.92010 | .01000 | 25.00000 | .06820 | .00850 | .05750 | 4.89170 | 4.94860 |
| 1.404 | -.003 | -.00410 | .02770 | 4.91480 | .01000 | 25.00000 | .05970 | .00270 | .05270 | 4.88590 | 4.94370 |
| 1.400 | 2.564 | .01010 | .02830 | 4.92000 | .01000 | 25.00000 | .05970 | .00390 | .05270 | 4.89630 | 4.94370 |
| 1.398 | 5.138 | .04210 | .02040 | 4.92210 | .01000 | 25.00000 | .06820 | -.00190 | .04270 | 4.89050 | 4.95370 |
| 1.401 | 7.268 | .04730 | .02310 | 4.91930 | .01000 | 25.00000 | .07670 | -.00190 | .04820 | 4.89050 | 4.94820 |
| 1.401 | 8.304 | .04770 | .02310 | 4.91930 | .01000 | 25.00000 | .07670 | -.00650 | .05270 | 4.89050 | 4.94370 |
| 1.398 | 10.351 | .06030 | .02310 | 4.91940 | .01000 | 25.00000 | .06820 | -.00650 | .04820 | 4.89510 | 4.94820 |
| 1.398 | 12.465 | .07260 | .02080 | 4.92160 | .01000 | 25.00000 | .00000 | -.00047 | .00000 | .00405 | .00000 |
| 1.399 | | .00553 | .00023 | .00202 | .00000 | .00000 | .00000 | | | | |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

AMES 118-1-11 OAI45A 01(-TO+)

(C2F048) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA =
ELEVON =
SPOBRK =
RN/L =
BETA =
BOFLAP =
RUDDER =
5.000
.000
25.000
5.000
.000
.000
5.000

RUN NO. 258/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | BETA | ELEVON | BOFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|----------|--------|---------|--------|---------|--------|----------|---------|---------|---------|----------|----------|
| .599 | -4.829 | 4.19390 | .00390 | -.00140 | .00000 | 25.00000 | -.11710 | .06010 | -.06280 | -4.91270 | -4.74600 |
| .599 | -3.969 | 4.19520 | .00540 | -.03750 | .01000 | 25.00000 | -.12550 | .11400 | -.18890 | -3.95970 | -3.97890 |
| .599 | -2.938 | 4.19600 | .00810 | -.02050 | .01000 | 25.00000 | -.11710 | .08500 | -.12610 | -2.92500 | -2.92150 |
| .599 | -1.944 | 4.19640 | .01080 | -.02020 | .01000 | 25.00000 | -.11710 | .02470 | -.06510 | -1.93290 | -1.93290 |
| .599 | -.999 | 4.19680 | .01330 | .02370 | .01000 | 25.00000 | -.12550 | .00470 | .04280 | -.99530 | -1.00240 |
| .599 | -.015 | 4.19820 | .01640 | .01520 | .01000 | 25.00000 | -.13380 | .02480 | -.00570 | -.02480 | -.00570 |
| .598 | .970 | 4.19860 | .01800 | -.00490 | .00000 | 25.00000 | -.13380 | .00030 | -.00950 | .98960 | .95050 |
| .600 | 1.980 | 4.19960 | .01980 | .01420 | .01000 | 25.00000 | -.14220 | .01180 | .01660 | 1.99180 | 1.95770 |
| .599 | 2.938 | 4.19870 | .02150 | .06170 | .01000 | 25.00000 | -.13380 | .09660 | .02690 | 2.92920 | 2.94780 |
| .599 | 3.944 | 4.19760 | .02330 | -.00660 | .01000 | 25.00000 | -.14220 | .02090 | .00770 | 3.93360 | 3.95410 |
| .599 | 4.915 | 4.19790 | .02510 | .03230 | .01000 | 25.00000 | -.13380 | -.00190 | .06540 | 4.89050 | 4.93970 |
| GRADIENT | | .00042 | .00223 | .00538 | .00037 | -.00000 | -.00240 | -.00784 | .01862 | 1.00272 | .99729 |

RUN NO. 257/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | BETA | ELEVON | BOFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|----------|--------|---------|---------|---------|---------|----------|---------|---------|---------|----------|----------|
| .800 | -4.822 | 4.14790 | -.00340 | -.00920 | .01000 | 25.00000 | .05110 | .05450 | -.07290 | -4.91830 | -4.72630 |
| .801 | -3.977 | 4.14920 | -.00050 | -.02600 | .01000 | 25.00000 | .08520 | .12780 | -.17980 | -3.97350 | -3.97980 |
| .801 | -2.948 | 4.14980 | .00290 | -.02540 | .00000 | 25.00000 | .05970 | .08000 | -.13080 | -2.97000 | -2.92620 |
| .800 | -1.951 | 4.15070 | .00630 | -.02310 | .01000 | 25.00000 | .00000 | .01430 | -.06050 | -1.96550 | -1.93750 |
| .800 | -.993 | 4.15040 | .00990 | .02370 | .00000 | 25.00000 | .03410 | .01040 | .03700 | -.98960 | -.99660 |
| .801 | -.006 | 4.15340 | .01370 | .02000 | .01000 | 25.00000 | .07670 | .02000 | .02000 | -.00980 | -.00300 |
| .801 | .972 | 4.15520 | .01500 | -.00740 | .01000 | 25.00000 | .00850 | -.00030 | -.01450 | .98960 | .95550 |
| .801 | 1.980 | 4.15510 | .01770 | .01420 | .01000 | 25.00000 | -.01670 | .02250 | .00580 | 2.00250 | 1.95700 |
| .801 | 2.934 | 4.15640 | .02010 | .06130 | .00000 | 25.00000 | .00000 | .10090 | .02180 | 2.92480 | 2.94240 |
| .800 | 3.952 | 4.15430 | .02280 | -.00950 | .01000 | 25.00000 | -.01670 | -.01590 | -.00300 | 3.93850 | 3.96480 |
| .800 | 4.928 | 4.15580 | .02530 | .04020 | .00000 | 25.00000 | .01700 | .00390 | .07650 | 4.89630 | 4.95870 |
| GRADIENT | | .00086 | .00293 | .00571 | -.00037 | -.00000 | -.00759 | -.00709 | .01852 | 1.00349 | .99650 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

AMES 118-1-11 OAI45A 01(-TO+)

(C2F048) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YC
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA =
 ELEVON =
 SPOBRK =
 RUDDER =
 RN/L =

5.000
 .000
 25.000
 5.000

BETA =
 BOFLAP =
 RUDDER =

.000
 .000
 .000

RUN NO. 204/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | BETA | ELEVON | BOFLAP | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|--------|---------|---------|----------|---------|---------|---------|----------|----------|
| .903 | -4.927 | 5.25570 | .03990 | -.04050 | -.08040 | 25.00000 | .00850 | -.01590 | -.06500 | -4.93670 | -4.91650 |
| .901 | -4.053 | 5.43050 | .04280 | -.06980 | -.08040 | 25.00000 | .00850 | -.04880 | -.11830 | -3.98810 | -4.11830 |
| .902 | -3.017 | 5.42720 | .04520 | -.05850 | -.08040 | 25.00000 | .00000 | .02000 | -.13700 | -2.98000 | -3.05330 |
| .903 | -2.008 | 5.42290 | .04800 | -.08160 | -.07040 | 25.00000 | .00000 | -.04230 | -.12090 | -1.98170 | -2.03460 |
| .901 | -1.036 | 5.41970 | .05020 | -.04990 | -.08040 | 25.00000 | .00000 | -.05130 | -.05130 | -.99900 | -1.07350 |
| .903 | -.027 | 5.42240 | .05220 | -.03660 | -.07040 | 25.00000 | .00000 | -.02780 | -.04540 | -.01770 | -.03540 |
| .903 | .983 | 5.42240 | .05350 | -.09450 | -.07040 | 25.00000 | .00000 | -.07540 | -.11370 | .99320 | .97280 |
| .903 | 1.994 | 5.42570 | .05480 | -.08540 | -.08040 | 25.00000 | .00000 | -.00940 | -.12540 | 1.99550 | 1.99180 |
| .902 | 3.981 | 5.42820 | .05630 | -.06070 | -.08040 | 25.00000 | .00000 | .00940 | -.13080 | 2.93910 | 3.02280 |
| .903 | 3.994 | 5.43300 | .05870 | -.12230 | -.08040 | 25.00000 | .00000 | -.08220 | -.16240 | 3.94540 | 4.04260 |
| .903 | 5.009 | 5.43930 | .06120 | -.10980 | -.08040 | 25.00000 | .00000 | -.06630 | -.15340 | 4.89690 | 5.12060 |
| .902 | GRADIENT | .00941 | .00200 | -.00506 | .00006 | .00000 | -.00082 | -.00782 | -.00231 | .99174 | 1.00826 |

RUN NO. 195/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | BETA | ELEVON | BOFLAP | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|--------|---------|---------|----------|---------|---------|---------|----------|----------|
| .955 | -4.945 | 5.25410 | .03790 | -.03910 | -.08040 | 25.00000 | -.06690 | -.02790 | -.05020 | -4.95790 | -4.93140 |
| .955 | -4.058 | 5.45560 | .04080 | -.05980 | -.07040 | 25.00000 | -.05690 | .05860 | -.17830 | -3.98750 | -4.12830 |
| .955 | -3.005 | 5.45570 | .04320 | -.07040 | -.08040 | 25.00000 | -.07530 | .01500 | -.15570 | -2.96500 | -3.04410 |
| .956 | -1.999 | 5.45800 | .04530 | -.08670 | -.07040 | 25.00000 | -.06690 | -.05760 | -.11590 | -1.97650 | -2.02050 |
| .955 | -1.034 | 5.45320 | .04770 | -.04690 | -.08040 | 25.00000 | -.06690 | -.05350 | -.04030 | -.99410 | -1.07400 |
| .954 | -.035 | 5.45440 | .04860 | -.03510 | -.07040 | 25.00000 | -.07530 | -.03990 | -.03030 | -.03990 | -.03030 |
| .954 | .966 | 5.45340 | .04810 | -.09670 | -.08040 | 25.00000 | -.07530 | -.07580 | -.11770 | .97320 | .95920 |
| .952 | 1.996 | 5.44880 | .04930 | -.08750 | -.08040 | 25.00000 | -.08370 | -.05500 | -.12000 | 1.99450 | 1.99720 |
| .953 | 2.975 | 5.45120 | .05110 | -.05530 | -.08040 | 25.00000 | -.07530 | .00960 | -.12030 | 2.92790 | 3.02260 |
| .954 | 3.994 | 5.44860 | .05400 | -.12230 | -.08040 | 25.00000 | -.08370 | -.08220 | -.16240 | 3.94540 | 4.04260 |
| .954 | 5.007 | 5.45050 | .05630 | -.10090 | -.08040 | 25.00000 | -.07530 | -.06010 | -.14170 | 4.91390 | 5.09930 |
| .952 | GRADIENT | .01002 | .00156 | -.00500 | -.00055 | .00000 | -.00174 | -.00749 | -.00252 | .99120 | 1.00880 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1022

AMES 118-1-11 0A145A 01(-10+)

(C2F048) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 BOFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 439/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIRLON | ALPHA | BETA | ELEVON | BOFLAP | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIRL-IB | AIRL-OB |
|-------|----------|---------|--------|---------|---------|----------|---------|---------|---------|----------|----------|
| 1.101 | -4.858 | 5.14500 | .03270 | .02620 | .02910 | 25.00000 | -.10960 | .05450 | -.00210 | -4.91830 | -4.79710 |
| 1.101 | -4.041 | 5.14590 | .03430 | .04490 | .01940 | 25.00000 | -.11640 | .13360 | -.04370 | -3.95850 | -4.12410 |
| 1.101 | -3.002 | 5.15000 | .03570 | .04380 | .01940 | 25.00000 | -.11640 | .09000 | -.00250 | -2.95000 | -3.05460 |
| 1.101 | -1.992 | 5.14930 | .03630 | .02250 | .00970 | 25.00000 | -.11640 | .02980 | .01510 | -1.96010 | -2.02360 |
| 1.101 | -1.007 | 5.14580 | .03620 | .03870 | .02910 | 25.00000 | -.11640 | .01610 | .06140 | -.98390 | -1.03110 |
| 1.101 | -.001 | 5.14790 | .03580 | .02000 | .01940 | 25.00000 | -.11640 | .02010 | .02000 | .00030 | -.00300 |
| 1.101 | .997 | 5.14870 | .03480 | -.01740 | .01940 | 25.00000 | -.10960 | .00980 | -.04460 | .98960 | 1.00400 |
| 1.101 | 1.994 | 5.15080 | .03390 | -.01060 | .01940 | 25.00000 | -.11640 | .00750 | -.02880 | 1.99620 | 1.99160 |
| 1.101 | 2.970 | 5.15100 | .03380 | .03480 | .00970 | 25.00000 | -.11640 | .09220 | -.02260 | 2.93350 | 3.00740 |
| 1.101 | 3.957 | 5.15030 | .03460 | -.01500 | .00970 | 25.00000 | -.11640 | -.01590 | -.01410 | 3.93850 | 3.97590 |
| 1.101 | 4.937 | 5.15000 | .03590 | .03020 | .00000 | 25.00000 | -.11640 | .00850 | .05200 | 4.89170 | 4.98320 |
| 1.101 | GRADIENT | .00047 | .00005 | -.00342 | -.00186 | .00000 | -.00024 | -.00808 | .00125 | .99354 | 1.00646 |

RUN NO. 237/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIRLON | ALPHA | BETA | ELEVON | BOFLAP | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIRL-IB | AIRL-OB |
|-------|----------|---------|--------|---------|--------|----------|--------|---------|---------|----------|----------|
| 1.200 | -4.820 | 4.26240 | .00760 | -.01170 | .01000 | 25.00000 | .04260 | .05450 | -.07780 | -4.91830 | -4.72140 |
| 1.201 | -3.972 | 4.26200 | .00830 | -.04030 | .01000 | 25.00000 | .05110 | .11340 | -.19370 | -3.96950 | -3.97390 |
| 1.202 | -2.938 | 4.26060 | .00920 | -.02050 | .01000 | 25.00000 | .05110 | .08500 | -.12610 | -2.95500 | -2.92150 |
| 1.201 | -1.954 | 4.26020 | .00960 | -.01590 | .01000 | 25.00000 | .06820 | .02470 | -.05650 | -1.95500 | -1.95190 |
| 1.200 | -.993 | 4.26000 | .00950 | .03520 | .01000 | 25.00000 | .07670 | .02180 | .04850 | -.97820 | -1.00810 |
| 1.201 | -.003 | 4.26060 | .00950 | .01330 | .01000 | 25.00000 | .07670 | .01510 | .01150 | .00520 | -.01150 |
| 1.201 | .967 | 4.26130 | .00970 | -.00260 | .01000 | 25.00000 | .08520 | .00470 | -.00990 | .97440 | .96010 |
| 1.201 | 1.980 | 4.26290 | .00970 | .01930 | .01000 | 25.00000 | .07670 | .02210 | .01660 | 1.99230 | 1.96770 |
| 1.201 | 2.944 | 4.26230 | .00950 | .06660 | .01000 | 25.00000 | .06820 | .10090 | .03230 | 2.92480 | 2.96270 |
| 1.201 | 3.946 | 4.26260 | .01010 | -.00400 | .01000 | 25.00000 | .07670 | -.01020 | .00230 | 3.93280 | 3.95950 |
| 1.201 | 4.921 | 4.26220 | .01090 | .03810 | .01000 | 25.00000 | .07670 | .01470 | .06200 | 4.89750 | 4.94410 |
| 1.201 | GRADIENT | .00012 | .00023 | .00639 | .00000 | -.00000 | .00323 | -.00625 | .01903 | 1.00296 | .99705 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1023

AMES 118-1-11 OAI45A 01(-TO+)

(C2F048) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA =
 ELEVON =
 SPOBRK =
 RN/L =

BETA =
 BDFLAP =
 RUDDER =

5.000
 .000
 25.000
 5.000

.000
 .000
 .000

RUN NO. 227/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | BETA | ELEVON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|---------|---------|---------|---------|----------|--------|---------|---------|----------|----------|
| 1.298 | -4.830 | 4.19740 | .01210 | .00820 | .01000 | 25.00000 | .01700 | .05990 | -.04350 | -4.92360 | -4.73650 |
| 1.298 | -3.968 | 4.19810 | .01260 | -.02330 | .01000 | 25.00000 | .01700 | .12320 | -.16980 | -3.96890 | -3.96980 |
| 1.297 | -2.948 | 4.19920 | .01280 | -.01570 | .01000 | 25.00000 | .01700 | .09500 | -.12630 | -2.95500 | -2.94030 |
| 1.297 | -1.961 | 4.19940 | .01270 | -.00850 | .01000 | 25.00000 | .01700 | .04010 | -.05710 | -1.95990 | -1.96170 |
| 1.297 | -.993 | 4.20490 | .01260 | .02400 | .01000 | 25.00000 | .01700 | .01610 | .03200 | -.98390 | -1.00170 |
| 1.297 | .004 | 4.20660 | .01260 | .00890 | .01000 | 25.00000 | .04260 | .00500 | .01280 | -.00500 | .01280 |
| 1.296 | .967 | 4.21430 | .01260 | -.00800 | .01000 | 25.00000 | .04260 | -.01560 | -.00030 | .97430 | .95970 |
| 1.296 | 1.977 | 4.21620 | .01260 | .00640 | .01000 | 25.00000 | .03410 | .01180 | .00100 | 1.99180 | 1.96180 |
| 1.296 | 2.938 | 4.21590 | .01210 | .05670 | .01000 | 25.00000 | .00850 | .09660 | .01690 | 2.92920 | 2.94730 |
| 1.296 | 3.951 | 4.21610 | .01200 | -.00410 | .01000 | 25.00000 | .02560 | -.01020 | .00210 | 3.93280 | 3.96990 |
| 1.296 | 4.921 | 4.21880 | .01230 | .03810 | .01000 | 25.00000 | .03410 | .01430 | .06200 | 4.89750 | 4.94410 |
| 1.296 | GRADIENT | .00252 | -.00003 | .00410 | -.00000 | .00000 | .00143 | -.00787 | .01608 | 1.00230 | .99769 |

RUN NO. 218/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | BETA | ELEVON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|---------|---------|---------|---------|----------|---------|---------|---------|----------|----------|
| 1.404 | -4.835 | 5.04260 | .04510 | .00810 | .02000 | 25.00000 | .00850 | .05450 | -.03840 | -4.91830 | -4.75120 |
| 1.404 | -3.968 | 5.23020 | .04610 | .03500 | .02000 | 25.00000 | .00850 | .10480 | -.17480 | -3.95050 | -3.98480 |
| 1.403 | -2.948 | 5.23320 | .04640 | -.02080 | .02000 | 25.00000 | .00000 | .08000 | -.12150 | -2.96000 | -2.93550 |
| 1.403 | -1.963 | 5.23320 | .04650 | -.01650 | .02000 | 25.00000 | .00000 | .01430 | -.04730 | -1.96550 | -1.96110 |
| 1.403 | -.996 | 5.20890 | .04500 | .02730 | .02000 | 25.00000 | .00000 | .01110 | .04350 | -.97900 | -1.01320 |
| 1.404 | -.008 | 5.21750 | .04530 | .02620 | .02000 | 25.00000 | .00000 | .01510 | .03720 | .00520 | -.02020 |
| 1.403 | .972 | 5.21790 | .04520 | -.00280 | .02000 | 25.00000 | .00000 | .00470 | -.01030 | .97440 | .96970 |
| 1.403 | 1.982 | 5.21800 | .04500 | .01200 | .02000 | 25.00000 | .00000 | .01290 | .01120 | 2.00150 | 1.96240 |
| 1.403 | 2.935 | 5.22430 | .04470 | .05410 | .02000 | 25.00000 | .00000 | .07130 | .03590 | 2.92130 | 2.94780 |
| 1.403 | 3.959 | 5.22360 | .04430 | -.01210 | .02000 | 25.00000 | .00000 | -.01020 | -.01400 | 3.93280 | 3.98600 |
| 1.404 | 4.803 | 5.22460 | .04430 | .04440 | .02000 | 25.00000 | .00000 | .02330 | .06640 | 4.87790 | 4.93970 |
| 1.404 | GRADIENT | .00762 | -.00018 | .00487 | -.00000 | .00000 | -.00071 | -.00611 | .01585 | 1.00099 | .99901 |

OAI145 TABULATED FORCE DATA

AMES 118-1-11 OAI145A 01(+TO-)

DATE 10 MAR 80

(C2F049) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XC = 1076.6800 IN.
YO = .0000 IN.
ZO = 375.0000 IN.

PARAMETRIC DATA

ALPHA = 5.000
ELEVON = .000
SPDBRK = 25.000
RUDDER = 5.000
BETA = .000
BOFLAP = .000
RUDDER = .000

RUN NO. 259/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIRLON | ALPHA | BETA | ELEVON | BOFLAP | SPDBRK | RUDDER | ELV-IB | ELV-OB | AIRL-IB | AIRL-OB |
|------|----------|---------|--------|---------|--------|----------|---------|---------|---------|----------|----------|
| .599 | -4.820 | 4.19330 | .00470 | -.01170 | .01000 | 25.00000 | -.14220 | .05450 | -.07780 | -4.91830 | -4.72140 |
| .598 | -3.967 | 4.19450 | .00700 | -.03490 | .01000 | 25.00000 | -.14220 | .11920 | -.18890 | -3.95450 | -3.97890 |
| .599 | -2.941 | 4.19610 | .00870 | -.02770 | .01000 | 25.00000 | -.14220 | .08000 | -.13540 | -2.97000 | -2.91220 |
| .599 | -1.947 | 4.19690 | .01090 | -.02280 | .01000 | 25.00000 | -.14220 | .01950 | -.06510 | -1.96030 | -1.93290 |
| .599 | -.996 | 4.19740 | .01360 | .01590 | .01000 | 25.00000 | -.14220 | -.00020 | .03200 | -.99030 | -1.00170 |
| .600 | -.004 | 4.19920 | .01610 | .01710 | .01000 | 25.00000 | -.15060 | .00990 | .02420 | -.00990 | .00130 |
| .598 | .965 | 4.19950 | .01790 | -.00490 | .01000 | 25.00000 | -.15060 | .00470 | -.01450 | .97440 | .95550 |
| .599 | 1.985 | 4.19970 | .01960 | .01470 | .01000 | 25.00000 | -.15060 | .01820 | .01120 | 2.00690 | 1.96240 |
| .599 | 2.933 | 4.19950 | .02130 | .06140 | .01000 | 25.00000 | -.15060 | .09100 | .03180 | 2.92360 | 2.94260 |
| .599 | 3.949 | 4.19830 | .02340 | -.00680 | .01000 | 25.00000 | -.15060 | -.01590 | .00230 | 3.93850 | 3.95950 |
| .599 | 4.915 | 4.19820 | .02510 | .03230 | .01000 | 25.00000 | -.14220 | -.00190 | .06640 | 4.89050 | 4.93970 |
| .599 | GRADIENT | .00053 | .00211 | .00607 | .00000 | .00000 | -.00078 | -.00734 | .01947 | 1.00375 | .99625 |

RUN NO. 205/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIRLON | ALPHA | BETA | ELEVON | BOFLAP | SPDBRK | RUDDER | ELV-IB | ELV-OB | AIRL-IB | AIRL-OB |
|------|----------|---------|--------|---------|---------|----------|---------|---------|---------|----------|----------|
| .902 | -4.930 | 5.44050 | .04020 | -.03870 | -.08040 | 25.00000 | .00850 | -.02700 | -.05050 | -4.94780 | -4.91190 |
| .902 | -4.050 | 5.43650 | .04320 | -.06210 | -.08040 | 25.00000 | .00000 | .05920 | -.18330 | -3.97770 | -4.12330 |
| .903 | -3.007 | 5.43300 | .04550 | -.06330 | -.08040 | 25.00000 | .00000 | .01500 | -.14160 | -2.96500 | -3.04860 |
| .902 | -1.998 | 5.42490 | .04800 | -.08630 | -.08040 | 25.00000 | .00000 | -.04720 | -.12550 | -1.96640 | -2.03000 |
| .902 | -1.039 | 5.42190 | .05020 | -.06350 | -.08040 | 25.00000 | .00850 | -.06490 | -.06220 | -1.00540 | -1.07290 |
| .902 | -.006 | 5.42250 | .05180 | -.04090 | -.07040 | 25.00000 | .00000 | -.02650 | -.05540 | .00380 | -.01540 |
| .903 | .973 | 5.42390 | .05290 | -.10400 | -.07040 | 25.00000 | .00000 | -.08560 | -.12250 | .98300 | .96400 |
| .904 | 1.993 | 5.42770 | .05450 | -.09530 | -.07040 | 25.00000 | .00000 | -.05500 | -.13560 | 1.99450 | 1.99130 |
| .902 | 2.973 | 5.43040 | .05620 | -.06300 | -.08040 | 25.00000 | .00000 | .01510 | -.14110 | 2.93340 | 3.01250 |
| .901 | 3.996 | 5.43330 | .05860 | -.12470 | -.07040 | 25.00000 | .00000 | -.09140 | -.15790 | 3.95460 | 4.03810 |
| .901 | 5.006 | 5.43800 | .06120 | -.11230 | -.07040 | 25.00000 | .00000 | -.06630 | -.15820 | 4.89690 | 5.11580 |
| .901 | GRADIENT | -.00082 | .00193 | -.00590 | .00110 | .00000 | -.00051 | -.00806 | -.00373 | .99205 | 1.00794 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

AMES 118-1-11 OAI45A 01(+TO-)

PAGE 1025

(C2F049) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

RUN NO. 238/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | BETA | ELEVON | BDFLAP | SPDBRK | RUDDER | ELV-1B | ELV-OB | AIL-1B | AIL-OB |
|-------|----------|---------|--------|---------|--------|----------|--------|---------|---------|----------|----------|
| 1.202 | -4.820 | 4.26230 | .00800 | .00390 | .01000 | 25.00000 | .07670 | .07100 | -.06310 | -4.91250 | -4.72650 |
| 1.202 | -3.989 | 4.26190 | .00890 | -.03790 | .01000 | 25.00000 | .07670 | .12320 | -.19890 | -3.96890 | -3.96890 |
| 1.201 | -2.931 | 4.26280 | .00950 | -.02270 | .01000 | 25.00000 | .07670 | .09000 | -.13540 | -2.95000 | -2.91220 |
| 1.202 | -1.954 | 4.26250 | .01000 | -.02080 | .01000 | 25.00000 | .06820 | .02470 | -.06630 | -1.95500 | -1.95350 |
| 1.201 | -1.004 | 4.26190 | .01020 | .02410 | .01000 | 25.00000 | .06820 | .01510 | .03270 | -.99470 | -1.01250 |
| 1.200 | -.000 | 4.25380 | .00990 | .02760 | .01000 | 25.00000 | .06820 | .00970 | .04000 | .00520 | -.00600 |
| 1.202 | .960 | 4.26430 | .00920 | -.00010 | .01000 | 25.00000 | .07670 | .01820 | -.00990 | .95920 | .96010 |
| 1.201 | 1.992 | 4.26430 | .00880 | .00750 | .01000 | 25.00000 | .07670 | .10090 | -.00320 | 2.00690 | 1.97880 |
| 1.200 | 2.946 | 4.26540 | .00910 | .06420 | .01000 | 25.00000 | .07670 | .10090 | .02740 | 2.92480 | 2.96760 |
| 1.204 | 3.952 | 4.26160 | .00960 | -.01470 | .01000 | 25.00000 | .07670 | -.01590 | -.01350 | 3.93850 | 3.96510 |
| 1.200 | 4.923 | 4.26270 | .01090 | .04060 | .01000 | 25.00000 | .07670 | .01430 | .06680 | 4.89750 | 4.94900 |
| 1.200 | GRADIENT | .00014 | .00012 | .00529 | .00000 | -.00000 | .00024 | -.00768 | .01824 | 1.00270 | .99730 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

RUN NO. 265/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | BETA | ELEVON | BDFLAP | SPDBRK | RUDDER | ELV-1B | ELV-OB | AIL-1B | AIL-OB |
|------|----------|---------|---------|---------|--------|----------|---------|----------|---------|---------|---------|
| .598 | -5.765 | -.02940 | 9.93970 | 3.21750 | .01000 | 25.00000 | -.12550 | 10.12400 | 9.75550 | 3.11300 | 3.32210 |
| .598 | -.875 | .00380 | 9.93540 | 3.21330 | .01000 | 25.00000 | -.12550 | 10.12400 | 9.74690 | 3.11300 | 3.31360 |
| .597 | 1.656 | .01430 | 9.93260 | 3.21610 | .01000 | 25.00000 | -.11710 | 10.12400 | 9.74140 | 3.11300 | 3.31920 |
| .598 | 4.230 | .01990 | 9.93540 | 3.21330 | .01000 | 25.00000 | -.11710 | 10.12400 | 9.74690 | 3.11300 | 3.31360 |
| .597 | 6.252 | .05720 | 9.93750 | 3.21540 | .01000 | 25.00000 | -.11710 | 10.12400 | 9.75120 | 3.11300 | 3.31790 |
| .599 | 7.297 | .06140 | 9.93750 | 3.21540 | .01000 | 25.00000 | -.11710 | 10.12400 | 9.75120 | 3.11300 | 3.31790 |
| .598 | 9.347 | .07540 | 9.93540 | 3.21330 | .01000 | 25.00000 | -.12550 | 10.12400 | 9.74690 | 3.11300 | 3.31360 |
| .597 | 11.401 | .08610 | 9.93710 | 3.22060 | .01000 | 25.00000 | -.14220 | 10.12900 | 9.74560 | 3.11780 | 3.32340 |
| .597 | 14.446 | .09310 | 9.93750 | 3.21540 | .01000 | 25.00000 | -.15060 | 10.12400 | 9.75120 | 3.11300 | 3.31790 |
| | GRADIENT | .00315 | .00000 | -.00000 | .00000 | .00000 | .00164 | .00000 | .00001 | .00000 | -.00001 |

(C2F050) (16 JUL 77)

PARAMETRIC DATA

BETA = .000
AILRON = 3.000
SPDBRK = 25.000
RN/L = 5.000
ELEVON = 10.000
BDFLAP = .000
RUDDER = .000

(C2F050) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = 10.000
AILRON = 3.000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 251/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-OB |
|------|----------|--------|---------|---------|--------|----------|--------|---------|---------|
| .800 | -5.564 | -.0270 | 9.95730 | 3.19370 | .01000 | 25.00000 | .00000 | 9.80120 | 3.12350 |
| .800 | -.796 | .00700 | 9.95730 | 3.19570 | .01000 | 25.00000 | .00850 | 9.80120 | 3.12350 |
| .800 | 1.724 | .02190 | 9.95730 | 3.19570 | .01000 | 25.00000 | .02560 | 9.80120 | 3.12350 |
| .797 | 4.225 | .01900 | 9.95490 | 3.19330 | .01000 | 25.00000 | .03410 | 9.80120 | 3.11870 |
| .798 | 6.299 | .05260 | 9.95730 | 3.19570 | .01000 | 25.00000 | .04260 | 9.80120 | 3.12350 |
| .800 | 7.302 | .06280 | 9.95270 | 3.19120 | .01000 | 25.00000 | .03410 | 9.79690 | 3.11870 |
| .798 | 9.357 | .07150 | 9.95730 | 3.19570 | .01000 | 25.00000 | .03410 | 9.80120 | 3.12350 |
| .799 | 11.417 | .07720 | 9.95270 | 3.19120 | .01000 | 25.00000 | .03410 | 9.79690 | 3.11870 |
| .798 | 14.482 | .08540 | 9.95510 | 3.19360 | .01000 | 25.00000 | .00000 | 9.79690 | 3.12350 |
| | GRADIENT | .00239 | -.00048 | -.00048 | .00000 | .00000 | .00510 | .00000 | -.00095 |

RUN NO. 198/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-OB |
|------|----------|---------|----------|---------|---------|----------|---------|---------|---------|
| .902 | -4.1645 | -.03260 | 10.02800 | 3.13680 | -.08040 | 25.00000 | -.14220 | 9.97250 | 3.13440 |
| .901 | .495 | .01030 | 10.02800 | 3.13680 | -.08040 | 25.00000 | -.15060 | 9.97250 | 3.13440 |
| .902 | 3.017 | .02000 | 10.02800 | 3.13160 | -.08040 | 25.00000 | -.18400 | 9.97810 | 3.12960 |
| .899 | 5.585 | .04610 | 10.02600 | 3.13440 | -.08040 | 25.00000 | -.18400 | 9.97250 | 3.12960 |
| .899 | 7.615 | .05960 | 10.02600 | 3.12950 | -.08040 | 25.00000 | -.16730 | 9.97380 | 3.12940 |
| .900 | 8.641 | .06370 | 10.02900 | 3.12690 | -.08040 | 25.00000 | -.15890 | 9.97380 | 3.12450 |
| .899 | 10.681 | .07030 | 10.02600 | 3.12970 | -.08040 | 25.00000 | -.10870 | 9.96830 | 3.12450 |
| .900 | 12.749 | .06990 | 10.02400 | 3.12730 | -.08040 | 25.00000 | -.08370 | 9.96960 | 3.12960 |
| .900 | 15.834 | .07590 | 10.01900 | 3.12770 | -.08040 | 25.00000 | -.10040 | 9.96400 | 3.12480 |
| | GRADIENT | .00711 | -.00000 | -.00058 | .00000 | .00000 | -.00489 | .00062 | -.00053 |

RUN NO. 250/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | FLV-OB | AIL-OB |
|-------|----------|---------|---------|---------|--------|----------|--------|---------|---------|
| 1.194 | -5.825 | -.05520 | 9.92150 | 3.17700 | .02000 | 25.00000 | .06420 | 9.71500 | 3.12800 |
| 1.202 | -.830 | .09260 | 9.91910 | 3.17460 | .02000 | 25.00000 | .05970 | 9.71500 | 3.12320 |
| 1.191 | 1.730 | .01440 | 9.91910 | 3.17460 | .02000 | 25.00000 | .05110 | 9.71500 | 3.12320 |
| 1.194 | 4.320 | .01620 | 9.91700 | 3.17250 | .02000 | 25.00000 | .05970 | 9.71070 | 3.12320 |
| 1.200 | 6.341 | .05150 | 9.94900 | 3.20450 | .02000 | 25.00000 | .08520 | 9.77470 | 3.12320 |
| 1.197 | 7.387 | .05250 | 9.94900 | 3.20450 | .02000 | 25.00000 | .08520 | 9.77470 | 3.12320 |
| 1.196 | 9.469 | .05680 | 9.94680 | 3.20240 | .02000 | 25.00000 | .06820 | 9.77040 | 3.12320 |
| 1.193 | 11.551 | .05380 | 9.94960 | 3.19960 | .02000 | 25.00000 | .11080 | 9.76620 | 3.12320 |
| 1.191 | 14.675 | .04800 | 9.94470 | 3.19020 | .01000 | 25.00000 | .00000 | -.00084 | .00000 |
| | GRADIENT | .00264 | -.00041 | -.00041 | .00000 | .00000 | .00000 | -.00084 | .00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(C2F050) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA =
 AILRON =
 SPOBRK =
 RN/L =
 ELEVON = 10.000
 BOFLAP = .000
 RUDDER = .000

RUN NO. 221/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | AIL-1B | ELV-0B | AIL-0B |
|-------|----------|---------|---------|---------|--------|----------|---------|----------|---------|---------|---------|
| 1.297 | -5.836 | -.04040 | 9.96470 | 3.19250 | .02000 | 25.00000 | -.02510 | 10.11800 | 3.11840 | 9.81100 | 3.26660 |
| 1.296 | -.758 | -.00200 | 9.96020 | 3.18800 | .02000 | 25.00000 | -.02510 | 10.11400 | 3.11360 | 9.80680 | 3.26230 |
| 1.296 | 1.723 | .01300 | 9.96080 | 3.18310 | .02000 | 25.00000 | -.02510 | 10.11400 | 3.11360 | 9.80800 | 3.25250 |
| 1.297 | 4.286 | .01450 | 9.95810 | 3.18580 | .02000 | 25.00000 | -.03350 | 10.11400 | 3.11360 | 9.80250 | 3.25800 |
| 1.297 | 6.295 | .05320 | 9.96080 | 3.18310 | .02000 | 25.00000 | -.03350 | 10.11400 | 3.11360 | 9.80800 | 3.25250 |
| 1.297 | 7.340 | .05400 | 9.95810 | 3.18580 | .02000 | 25.00000 | -.03350 | 10.11400 | 3.11360 | 9.80250 | 3.25800 |
| 1.295 | 9.377 | .05960 | 9.95810 | 3.18580 | .02000 | 25.00000 | -.02510 | 10.11400 | 3.11360 | 9.80250 | 3.25800 |
| 1.295 | 11.493 | .05560 | 9.95810 | 3.18580 | .02000 | 25.00000 | -.03350 | 10.10900 | 3.10980 | 9.79820 | 3.25380 |
| 1.294 | 14.563 | .04760 | 9.95350 | 3.18130 | .02000 | 25.00000 | -.03350 | 10.10900 | 3.10980 | 9.79820 | 3.25380 |
| | GRADIENT | .00326 | -.00042 | -.00043 | .00000 | -.00000 | -.00167 | .00000 | -.00000 | -.00086 | -.00084 |

RUN NO. 212/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | AIL-1B | ELV-0B | AIL-0B |
|-------|----------|---------|---------|---------|--------|----------|---------|----------|---------|---------|---------|
| 1.402 | -5.003 | -.04240 | 9.96750 | 3.18970 | .01000 | 25.00000 | -.05860 | 10.11800 | 3.11840 | 9.81660 | 3.26100 |
| 1.403 | .143 | .00820 | 9.96300 | 3.18520 | .01000 | 25.00000 | -.06690 | 10.11400 | 3.11360 | 9.81230 | 3.25680 |
| 1.401 | 2.624 | .01760 | 9.96080 | 3.18310 | .02000 | 25.00000 | -.05860 | 10.11400 | 3.11360 | 9.80800 | 3.25250 |
| 1.400 | 5.224 | .04850 | 9.96080 | 3.18310 | .01000 | 25.00000 | -.05860 | 10.11400 | 3.11360 | 9.80800 | 3.25250 |
| 1.399 | 7.156 | .04670 | 9.96080 | 3.18310 | .02000 | 25.00000 | -.06690 | 10.11400 | 3.11360 | 9.80800 | 3.25250 |
| 1.399 | 8.215 | .05400 | 9.96080 | 3.18310 | .02000 | 25.00000 | -.06690 | 10.11400 | 3.11360 | 9.80800 | 3.25250 |
| 1.397 | 10.365 | .06470 | 9.95840 | 3.18070 | .02000 | 25.00000 | -.05860 | 10.10900 | 3.10880 | 9.80800 | 3.25250 |
| 1.398 | 12.471 | .06460 | 9.95650 | 3.17830 | .02000 | 25.00000 | -.06690 | 10.10400 | 3.11400 | 9.80930 | 3.24270 |
| | GRADIENT | .00379 | -.00089 | -.00085 | .00403 | .00000 | .00335 | .00000 | .00000 | -.00173 | -.00173 |

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OAI145 TABULATED FORCE DATA
AMES 118-1-11 OAI145A 01

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(C2F051) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

BETA = .000
AILRON = 5.000
SPDBRK = 25.000
RUDDER = 5.000
ELEVON = 10.000
BDFLAP = .000
RUDDER = .000

PARAMETRIC DATA

RUN NO. 265/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|---------|--------|----------|---------|---------|---------|---------|
| .599 | -5.759 | -.02190 | 9.91650 | 5.10800 | .01000 | 25.00000 | -.09200 | 9.82460 | 5.02500 | 5.19090 |
| .598 | 1.808 | .00980 | 9.91650 | 5.10800 | .01000 | 25.00000 | -.09200 | 9.82460 | 5.02500 | 5.19090 |
| .598 | 1.731 | .02100 | 9.91410 | 5.10550 | .01000 | 25.00000 | -.09200 | 9.81980 | 5.02500 | 5.18610 |
| .598 | 4.260 | .02810 | 9.91410 | 5.10550 | .01000 | 25.00000 | -.09200 | 9.81980 | 5.02500 | 5.18610 |
| .598 | 6.249 | .06410 | 9.90890 | 5.10030 | .01000 | 25.00000 | -.09200 | 9.81980 | 5.02500 | 5.18610 |
| .598 | 7.292 | .08800 | 9.91410 | 5.10550 | .01000 | 25.00000 | -.09200 | 9.81980 | 5.02500 | 5.18610 |
| .598 | 9.344 | .08260 | 9.91410 | 5.10550 | .01000 | 25.00000 | -.09200 | 9.81980 | 5.02500 | 5.18610 |
| .596 | 11.376 | .09780 | 9.90890 | 5.10030 | .01000 | 25.00000 | -.08370 | 9.81020 | 5.01920 | 5.17650 |
| .598 | 14.381 | .10480 | 9.90650 | 5.09790 | .01000 | 25.00000 | .00000 | -.00095 | .00000 | -.00095 |
| | GRADIENT | .00361 | -.00047 | -.00049 | .00000 | .00000 | .00000 | | | |

RUN NO. 252/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|---------|---------|----------|---------|---------|---------|---------|
| .799 | -5.804 | -.01850 | 9.92620 | 5.08290 | .01000 | 25.00000 | -.02510 | 9.84960 | 5.01920 | 5.14670 |
| .801 | -.811 | .01360 | 9.92330 | 5.08010 | .01000 | 25.00000 | -.02510 | 9.84960 | 5.01350 | 5.14670 |
| .799 | 1.730 | .02630 | 9.92330 | 5.08010 | .01000 | 25.00000 | .00000 | 9.83510 | 5.01350 | 5.14200 |
| .797 | 4.254 | .02780 | 9.91600 | 5.07770 | .01000 | 25.00000 | .00000 | 9.84480 | 5.01350 | 5.14180 |
| .799 | 6.290 | .05990 | 9.92090 | 5.07770 | .01000 | 25.00000 | .00850 | 9.84480 | 5.01350 | 5.14180 |
| .798 | 7.313 | .07000 | 9.92090 | 5.07770 | .01000 | 25.00000 | .01700 | 9.84480 | 5.01350 | 5.14180 |
| .797 | 9.349 | .07990 | 9.92090 | 5.07770 | .01000 | 25.00000 | .01700 | 9.84480 | 5.01350 | 5.14180 |
| .800 | 11.407 | .08470 | 9.92090 | 5.07770 | .01000 | 25.00000 | -.07530 | 9.84480 | 5.01350 | 5.14180 |
| .800 | 14.475 | .09120 | 9.92090 | 5.07770 | .01000 | 25.00000 | .00496 | -.00286 | .00000 | -.00093 |
| | GRADIENT | .00281 | -.00144 | -.00047 | -.00000 | .00000 | .00000 | | | |

RUN NO. 199/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|---------|---------|----------|--------|---------|---------|---------|
| .901 | -4.717 | -.02700 | 9.95080 | 5.08340 | -.09050 | 25.00000 | .00000 | 9.96700 | 5.04140 | 5.12540 |
| .899 | .480 | .01640 | 9.95070 | 5.07870 | -.08040 | 25.00000 | .00000 | 9.96220 | 5.03680 | 5.12060 |
| .901 | 3.010 | .02690 | 9.95600 | 5.08400 | -.08040 | 25.00000 | .00000 | 9.96700 | 5.04260 | 5.12540 |
| .901 | 5.575 | .05340 | 9.95310 | 5.08110 | -.08040 | 25.00000 | .00000 | 9.96700 | 5.03680 | 5.12540 |
| .901 | 7.609 | .06570 | 9.95310 | 5.08110 | -.08040 | 25.00000 | .00000 | 9.96710 | 5.03110 | 5.11560 |
| .900 | 8.631 | .07100 | 9.95030 | 5.07330 | -.08040 | 25.00000 | .00000 | 9.96220 | 5.03680 | 5.12060 |
| .900 | 10.668 | .07570 | 9.95070 | 5.07870 | -.09050 | 25.00000 | .00000 | 9.96220 | 5.03110 | 5.12060 |
| .898 | 12.725 | .07490 | 9.94780 | 5.07580 | -.08040 | 25.00000 | .00000 | 9.96220 | 5.03110 | 5.12060 |
| .898 | 15.811 | .03080 | 9.94780 | 5.07580 | -.08040 | 25.00000 | .00000 | -.00014 | .00000 | -.00014 |
| | GRADIENT | .00718 | .00057 | -.00007 | .00140 | -.00000 | .00000 | | | |

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OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(C2F051) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

BETA =
 AILRON =
 SPDBRK =
 RN/L =

.000 ELEVON = 10.000
 5.000 BDFLAP = .000
 25.000 RUDDER = .000
 5.000

PARAMETRIC DATA

RUN NO. 231/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-08 | AIL-18 | AIL-08 |
|-------|----------|---------|---------|---------|--------|----------|--------|---------|---------|---------|---------|
| 1.200 | -5.826 | -0.0390 | 9.91910 | 5.10060 | .01000 | 25.00000 | .10230 | 9.82970 | 5.02500 | 5.02500 | 5.17620 |
| 1.205 | -5.826 | .00620 | 9.91380 | 5.09530 | .01000 | 25.00000 | .10230 | 9.82490 | 5.01920 | 5.01920 | 5.17140 |
| 1.199 | 1.740 | .01800 | 9.90870 | 5.09560 | .01000 | 25.00000 | .11080 | 9.82010 | 5.02460 | 5.02460 | 5.16660 |
| 1.194 | 4.319 | .01840 | 9.90870 | 5.09560 | .01000 | 25.00000 | .11080 | 9.82010 | 5.02460 | 5.02460 | 5.16660 |
| 1.196 | 6.345 | .05630 | 9.90870 | 5.09560 | .01000 | 25.00000 | .11930 | 9.82010 | 5.02460 | 5.02460 | 5.16660 |
| 1.195 | 7.388 | .05730 | 9.91140 | 5.09290 | .01000 | 25.00000 | .11930 | 9.82010 | 5.01920 | 5.01920 | 5.16660 |
| 1.199 | 9.448 | .06170 | 9.91140 | 5.09290 | .01000 | 25.00000 | .11080 | 9.82010 | 5.01920 | 5.01920 | 5.16660 |
| 1.197 | 11.531 | .05930 | 9.91140 | 5.09290 | .01000 | 25.00000 | .11080 | 9.82010 | 5.01920 | 5.01920 | 5.16660 |
| 1.186 | 14.663 | .05380 | 9.90850 | 5.09000 | .01000 | 25.00000 | .10230 | 9.82010 | 5.01350 | 5.01350 | 5.16660 |
| | GRADIENT | .00237 | -0.0099 | .00006 | .00000 | .00000 | .00165 | -0.0093 | .00105 | -0.0093 | -0.0093 |

RUN NO. 222/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-08 | AIL-18 | AIL-08 |
|-------|----------|----------|---------|---------|--------|----------|---------|---------|---------|---------|---------|
| 1.297 | -5.831 | -0.01500 | 9.92800 | 5.08980 | .02000 | 25.00000 | -.02510 | 9.85910 | 5.01350 | 5.01350 | 5.16600 |
| 1.299 | -5.826 | -0.0130 | 9.92300 | 5.09000 | .02000 | 25.00000 | -.02510 | 9.85430 | 5.01880 | 5.01880 | 5.16120 |
| 1.296 | 1.690 | .01710 | 9.92300 | 5.08510 | .02000 | 25.00000 | -.02510 | 9.85440 | 5.01880 | 5.01880 | 5.15150 |
| 1.296 | 4.246 | .01910 | 9.92060 | 5.08760 | .02000 | 25.00000 | -.02510 | 9.84950 | 5.01880 | 5.01880 | 5.15640 |
| 1.294 | 6.285 | .05690 | 9.92320 | 5.08490 | .02000 | 25.00000 | -.02510 | 9.84950 | 5.01350 | 5.01350 | 5.15640 |
| 1.295 | 7.335 | .05770 | 9.92060 | 5.08760 | .02000 | 25.00000 | -.02510 | 9.84950 | 5.01880 | 5.01880 | 5.15640 |
| 1.295 | 9.400 | .06340 | 9.91770 | 5.08470 | .02000 | 25.00000 | -.02510 | 9.84950 | 5.01310 | 5.01310 | 5.15640 |
| 1.294 | 11.529 | .06200 | 9.91770 | 5.08470 | .02000 | 25.00000 | -.02510 | 9.84950 | 5.00770 | 5.00770 | 5.16120 |
| 1.294 | 14.578 | .04710 | 9.92280 | 5.08450 | .02000 | 25.00000 | -.02510 | 9.85430 | .00000 | .00000 | -0.0094 |
| | GRADIENT | .00401 | -0.0047 | -0.0047 | .00000 | .00000 | .00000 | -0.0095 | .00000 | .00000 | -0.0094 |

RUN NO. 213/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-08 | AIL-18 | AIL-08 |
|-------|----------|----------|---------|---------|---------|----------|--------|---------|---------|---------|---------|
| 1.403 | -5.021 | -0.03710 | 9.92780 | 5.09000 | .01000 | 25.00000 | .06820 | 9.86400 | 5.01880 | 5.01880 | 5.16110 |
| 1.409 | .071 | .00730 | 9.92540 | 5.08760 | .01000 | 25.00000 | .06820 | 9.85920 | 5.01880 | 5.01880 | 5.15630 |
| 1.401 | 2.659 | .01750 | 9.92300 | 5.08510 | .01000 | 25.00000 | .06820 | 9.85440 | 5.01880 | 5.01880 | 5.15150 |
| 1.401 | 5.133 | .05130 | 9.92020 | 5.08230 | .01000 | 25.00000 | .07670 | 9.85440 | 5.01310 | 5.01310 | 5.15150 |
| 1.399 | 7.228 | .05550 | 9.92020 | 5.08230 | .01000 | 25.00000 | .08520 | 9.85440 | 5.01310 | 5.01310 | 5.15150 |
| 1.398 | 8.183 | .05580 | 9.92350 | 5.08560 | .01000 | 25.00000 | .08520 | 9.84960 | 5.02460 | 5.02460 | 5.14670 |
| 1.397 | 10.226 | .06470 | 9.92590 | 5.08800 | .02000 | 25.00000 | .08520 | 9.85440 | 5.02460 | 5.02460 | 5.15150 |
| 1.398 | 12.377 | .06720 | 9.92590 | 5.08800 | .01000 | 25.00000 | .07670 | 9.85440 | 5.02460 | 5.02460 | 5.15150 |
| | GRADIENT | .00394 | -0.0093 | -0.0097 | -0.0000 | .00000 | .00000 | -0.0185 | .00000 | .00000 | -0.0185 |

DATE 10 MAR 80
OAI145 TABULATED FORCE DATA
AMES 118-1-11 OAI145A 01

(C2F052) (16 JUL 77)

PARAMETRIC DATA

BETA = .000 ELEVON = -10.000
AILRON = 3.000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

RUN NO. 263/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|--------|---------|----------|---------|----------|----------|--------|----------|-----------|---------|---------|
| .599 | -5.845 | -0.4480 | -9.91810 | 2.99810 | .01000 | 25.00000 | .00000 | -9.84010 | -9.99620 | 3.03410 | 2.96210 |
| .600 | -8.825 | -0.0880 | -9.92070 | 3.00060 | .01000 | 25.00000 | .00000 | -9.84010 | -10.00100 | 3.03410 | 2.96720 |
| .600 | 1.714 | .00440 | -9.92570 | 3.00080 | .01000 | 25.00000 | .00000 | -9.84010 | -10.01100 | 3.03410 | 2.96750 |
| .599 | 4.185 | .02610 | -9.92330 | 3.00320 | .01000 | 25.00000 | .00000 | -9.84010 | -10.00600 | 3.03410 | 2.97230 |
| .599 | 6.244 | .05650 | -9.92310 | 2.99820 | .01000 | 25.00000 | .00000 | -9.84010 | -10.00600 | 3.03410 | 2.96240 |
| .598 | 7.276 | .06260 | -9.92310 | 2.99820 | .01000 | 25.00000 | .00000 | -9.84010 | -10.00600 | 3.03410 | 2.96240 |
| .597 | 9.311 | .08020 | -9.92310 | 2.99820 | .01000 | 25.00000 | .00000 | -9.84010 | -10.01100 | 3.03410 | 2.95760 |
| .597 | 11.386 | .09110 | -9.92550 | 2.99580 | .01000 | 25.00000 | .00000 | -9.84010 | -10.01100 | 3.03410 | 2.95760 |
| .596 | 14.452 | .11470 | -9.92570 | 3.00080 | .01000 | 25.00000 | .00000 | -9.84010 | -10.01100 | 3.03410 | 2.95760 |
| | | .00696 | -0.00053 | .00052 | -0.00000 | .00000 | .00000 | .00000 | -0.00101 | .00000 | .00101 |

RUN NO. 249/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|--------|----------|----------|---------|----------|----------|----------|----------|-----------|---------|---------|
| .801 | -4.401 | -0.3940 | -9.93380 | 2.99810 | .01000 | 25.00000 | .11080 | -9.85630 | -10.01100 | 3.02870 | 2.96750 |
| .801 | 1.658 | -0.01520 | -9.93640 | 3.00070 | .01000 | 25.00000 | .11080 | -9.85630 | -10.01600 | 3.02870 | 2.97270 |
| .801 | 4.158 | .00980 | -9.93890 | 3.00320 | .01000 | 25.00000 | .11080 | -9.85630 | -10.02200 | 3.02870 | 2.97780 |
| .801 | 6.242 | .01790 | -9.94130 | 3.00080 | .01000 | 25.00000 | .10230 | -9.85630 | -10.02500 | 3.02870 | 2.97300 |
| .800 | 7.274 | .04880 | -9.93910 | 2.99800 | .01000 | 25.00000 | .11930 | -9.86170 | -10.01600 | 3.02330 | 2.97270 |
| .801 | 9.291 | .05950 | -9.93910 | 2.99800 | .01000 | 25.00000 | .09370 | -9.86170 | -10.01600 | 3.02330 | 2.97270 |
| .797 | 11.374 | .07480 | -9.94160 | 3.00050 | .01000 | 25.00000 | .07670 | -9.86170 | -10.02200 | 3.02330 | 2.97780 |
| .798 | 14.472 | .08710 | -9.94160 | 3.00050 | .01000 | 25.00000 | .01700 | -9.86170 | -10.02200 | 3.02330 | 2.97780 |
| .800 | | .10680 | -9.94160 | 3.00050 | .01000 | 25.00000 | .01700 | -9.86170 | -10.02200 | 3.02330 | 2.97780 |
| | | .00701 | -0.00088 | .00040 | -0.00000 | .00000 | -0.00106 | .00000 | -0.00160 | .00000 | .00081 |

RUN NO. 196/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|--------|---------|-----------|---------|----------|----------|----------|----------|-----------|---------|---------|
| .901 | -4.897 | -0.2980 | -10.21800 | 3.13810 | -0.08040 | 25.00000 | -0.05860 | -9.95910 | -10.47700 | 3.04510 | 3.23110 |
| .901 | 3.348 | .03190 | -10.21800 | 3.13810 | -0.08040 | 25.00000 | -0.06690 | -9.95910 | -10.47700 | 3.04510 | 3.23110 |
| .900 | 2.925 | .03190 | -10.21800 | 3.13810 | -0.08040 | 25.00000 | -0.07530 | -9.95910 | -10.47700 | 3.04510 | 3.23110 |
| .899 | 5.453 | .05670 | -10.22000 | 3.14070 | -0.08040 | 25.00000 | -0.05860 | -9.95910 | -10.48200 | 3.04510 | 3.23630 |
| .900 | 7.497 | .06530 | -10.22000 | 3.14070 | -0.08040 | 25.00000 | -0.06690 | -9.95910 | -10.48200 | 3.04510 | 3.23630 |
| .899 | 8.518 | .07190 | -10.22300 | 3.13300 | -0.08040 | 25.00000 | -0.06690 | -9.96450 | -10.48100 | 3.03970 | 3.23630 |
| .899 | 10.575 | .08860 | -10.22300 | 3.13800 | -0.07040 | 25.00000 | -0.04180 | -9.96450 | -10.48200 | 3.03970 | 3.23630 |
| .899 | 12.653 | .08970 | -10.22300 | 3.13830 | -0.07040 | 25.00000 | -0.03350 | -9.95910 | -10.48700 | 3.04510 | 3.23150 |
| .899 | 15.714 | .11520 | -10.22300 | 3.13840 | -0.08040 | 25.00000 | -0.06690 | -9.96450 | -10.48100 | 3.05050 | 3.22630 |
| | | .00762 | -0.00000 | .00000 | -0.00000 | .00000 | -0.00205 | .00000 | -0.00000 | .00000 | .00000 |

OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

DATE 10 MAR 80

(C2F052) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = -10.000
AILRON = 3.000 BDFLAP = .000
SPOBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 228/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|--------|----------|---------|--------|----------|--------|----------|-----------|---------|---------|
| 1.201 | -5.852 | -04020 | -9.93130 | 3.00580 | .01000 | 25.00000 | .03410 | -9.85090 | -10.01200 | 3.03410 | 2.97750 |
| 1.202 | -819 | -00170 | -9.93130 | 3.00580 | .01000 | 25.00000 | .05970 | -9.85090 | -10.01200 | 3.03410 | 2.97750 |
| 1.202 | 1.746 | .01130 | -9.93130 | 3.00580 | .01000 | 25.00000 | .05970 | -9.85090 | -10.01200 | 3.03410 | 2.97750 |
| 1.197 | 4.283 | .02000 | -9.93130 | 3.00580 | .01000 | 25.00000 | .06820 | -9.85090 | -10.01200 | 3.02870 | 2.97750 |
| 1.198 | 6.292 | .05860 | -9.93400 | 3.00310 | .01000 | 25.00000 | .09370 | -9.85630 | -10.01200 | 3.02870 | 2.97750 |
| 1.198 | 7.325 | .06020 | -9.93400 | 3.00310 | .01000 | 25.00000 | .11080 | -9.85630 | -10.01200 | 3.02870 | 2.97750 |
| 1.198 | 9.415 | .06730 | -9.93400 | 3.00310 | .01000 | 25.00000 | .07670 | -9.85630 | -10.01200 | 3.02870 | 2.97750 |
| 1.194 | 11.495 | .07010 | -9.93400 | 3.00310 | .01000 | 25.00000 | .07670 | -9.85630 | -10.01200 | 3.02870 | 2.97750 |
| 1.194 | 14.688 | .06160 | -9.93400 | 3.00310 | .01000 | 25.00000 | .06820 | -9.85630 | -10.01200 | 3.02870 | 2.97750 |
| 1.190 | GRADIENT | .00425 | .00000 | .00000 | .00000 | .00000 | .00166 | .00000 | .00000 | .00000 | .00000 |

RUN NO. 219/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|--------|----------|---------|--------|----------|---------|----------|-----------|---------|---------|
| 1.297 | -5.145 | -04390 | -9.92840 | 2.99810 | .01000 | 25.00000 | .00000 | -9.84550 | -10.01100 | 3.02870 | 2.96750 |
| 1.296 | .127 | -00170 | -9.93080 | 2.99570 | .01000 | 25.00000 | .00000 | -9.84550 | -10.01600 | 3.02870 | 2.96270 |
| 1.294 | 2.634 | .01220 | -9.93350 | 2.99300 | .01000 | 25.00000 | .00000 | -9.85090 | -10.01600 | 3.02330 | 2.96270 |
| 1.295 | 5.220 | .04040 | -9.93350 | 2.99540 | .01000 | 25.00000 | .01700 | -9.85090 | -10.01600 | 3.02330 | 2.96750 |
| 1.295 | 7.253 | .05090 | -9.93350 | 2.99540 | .02000 | 25.00000 | .00850 | -9.85090 | -10.01600 | 3.02330 | 2.96270 |
| 1.296 | 8.281 | .05560 | -9.93350 | 2.99300 | .02000 | 25.00000 | .01700 | -9.85090 | -10.01600 | 3.02330 | 2.96270 |
| 1.296 | 10.367 | .06470 | -9.93350 | 2.99290 | .02000 | 25.00000 | .01700 | -9.84550 | -10.02100 | 3.01790 | 2.96780 |
| 1.295 | 12.437 | .06360 | -9.93330 | 2.99290 | .02000 | 25.00000 | .01700 | -9.84550 | -10.01600 | 3.01790 | 2.96270 |
| 1.295 | 15.586 | .06100 | -9.93080 | 2.99030 | .02000 | 25.00000 | -.02510 | -9.84550 | -10.01600 | 3.01790 | 2.96270 |
| 1.294 | GRADIENT | .00554 | -.00108 | -.00108 | .00000 | .00000 | .00000 | -.00215 | .00000 | -.00215 | .00000 |

RUN NO. 210/ 0 RN/L = 5.09 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|--------|----------|---------|--------|----------|---------|----------|-----------|---------|---------|
| 1.404 | -5.113 | -03180 | -9.93640 | 3.00070 | .01000 | 25.00000 | -.05020 | -9.85630 | -10.01600 | 3.02870 | 2.97270 |
| 1.404 | .044 | -00650 | -9.93640 | 3.00070 | .01000 | 25.00000 | -.04180 | -9.85630 | -10.01600 | 3.02870 | 2.97270 |
| 1.403 | 2.591 | .02440 | -9.93910 | 2.99800 | .01000 | 25.00000 | -.04180 | -9.86170 | -10.01600 | 3.02330 | 2.97270 |
| 1.400 | 5.117 | .03330 | -9.93910 | 2.99800 | .01000 | 25.00000 | -.04180 | -9.86170 | -10.01600 | 3.02330 | 2.97270 |
| 1.399 | 7.126 | .04210 | -9.93910 | 2.99800 | .01000 | 25.00000 | -.04180 | -9.86170 | -10.01600 | 3.02330 | 2.96780 |
| 1.400 | 8.162 | .04360 | -9.94150 | 2.99560 | .01000 | 25.00000 | -.05020 | -9.86170 | -10.02100 | 3.02330 | 2.96780 |
| 1.401 | 10.299 | .06320 | -9.93910 | 2.99800 | .01000 | 25.00000 | -.05860 | -9.86170 | -10.01600 | 3.02330 | 2.97270 |
| 1.399 | 12.358 | .06210 | -9.93910 | 2.99800 | .01000 | 25.00000 | -.06690 | -9.86170 | -10.01600 | 3.02330 | 2.97270 |
| 1.399 | 15.483 | .05510 | -9.93910 | 2.99800 | .01000 | 25.00000 | -.07530 | -9.86170 | -10.01600 | 3.02330 | 2.97270 |
| 1.400 | GRADIENT | .00349 | -.00106 | -.00106 | .00000 | .00000 | .00000 | -.00212 | .00000 | -.00212 | .00000 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

AMES 118-1-11 0A145A 01

(CF053) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA =
AILRON =
SPOBRK =
RN/L =
ELEVON = -10.000
BDFLAP = .000
RUDDER = .000
25.000
5.000

RUN NO. 268/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-08 | AIL-08 | AIL-08 |
|------|----------|---------|----------|---------|--------|----------|--------|----------|---------|---------|
| .596 | -5.885 | -0.0420 | -9.89050 | 5.06460 | .01000 | 25.00000 | .00000 | -9.88650 | 5.04180 | 5.08730 |
| .601 | -1.994 | -0.0730 | -9.88790 | 5.06200 | .01000 | 25.00000 | .00000 | -9.88650 | 5.03670 | 5.08730 |
| .601 | 1.692 | .00840 | -9.88550 | 5.05950 | .01000 | 25.00000 | .00000 | -9.88160 | 5.03670 | 5.08240 |
| .600 | 4.163 | .02620 | -9.88550 | 5.05950 | .01000 | 25.00000 | .00000 | -9.88160 | 5.03670 | 5.08240 |
| .600 | 6.224 | .05710 | -9.88790 | 5.06200 | .01000 | 25.00000 | .00000 | -9.88650 | 5.03670 | 5.08730 |
| .599 | 7.253 | .06330 | -9.88790 | 5.06200 | .01000 | 25.00000 | .00000 | -9.88650 | 5.03670 | 5.08730 |
| .598 | 9.292 | .08170 | -9.89030 | 5.05960 | .01000 | 25.00000 | .00000 | -9.89130 | 5.03670 | 5.08250 |
| .597 | 11.359 | .09400 | -9.89030 | 5.05470 | .01000 | 25.00000 | .00000 | -9.89120 | 5.03670 | 5.07280 |
| | 14.446 | .11870 | -9.88790 | 5.05710 | .01000 | 25.00000 | .00000 | -9.88640 | 5.03670 | 5.07760 |
| | GRADIENT | .00649 | .00047 | .00049 | .00000 | .00000 | .00000 | .00096 | .00000 | .00096 |

RUN NO. 254/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-08 | AIL-08 | AIL-08 |
|------|----------|---------|----------|---------|--------|----------|--------|----------|---------|---------|
| .798 | -5.855 | -0.0430 | -9.89110 | 5.04930 | .01000 | 25.00000 | .00000 | -9.87660 | 5.03070 | 5.06780 |
| .802 | -1.853 | -0.0580 | -9.89600 | 5.04930 | .01000 | 25.00000 | .00000 | -9.88630 | 5.03070 | 5.06790 |
| .801 | 1.659 | .01180 | -9.89600 | 5.04930 | .01000 | 25.00000 | .00000 | -9.88630 | 5.03070 | 5.06790 |
| .802 | 4.171 | .02110 | -9.90080 | 5.04940 | .01000 | 25.00000 | .00000 | -9.89600 | 5.03070 | 5.06800 |
| .800 | 6.229 | .05170 | -9.90080 | 5.04450 | .01000 | 25.00000 | .00000 | -9.89590 | 5.03070 | 5.05830 |
| .800 | 7.261 | .06180 | -9.90080 | 5.04450 | .01000 | 25.00000 | .00000 | -9.89590 | 5.03070 | 5.05830 |
| .798 | 9.290 | .07660 | -9.89600 | 5.04930 | .01000 | 25.00000 | .00000 | -9.88630 | 5.03070 | 5.06790 |
| .799 | 11.355 | .08750 | -9.89600 | 5.04690 | .01000 | 25.00000 | .00000 | -9.89110 | 5.03070 | 5.06310 |
| | 14.459 | .10060 | -9.89840 | 5.05180 | .01000 | 25.00000 | .00000 | -9.89120 | 5.03070 | 5.07280 |
| | GRADIENT | .00535 | .00096 | .00002 | .00000 | .00000 | .00000 | .00193 | .00000 | .00002 |

RUN NO. 201/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-08 | AIL-08 | AIL-08 |
|------|----------|----------|-----------|---------|--------|----------|--------|-----------|---------|---------|
| .899 | -4.804 | -0.03510 | -10.18300 | 5.22510 | .08040 | 25.00000 | .00000 | -10.35900 | 5.05370 | 5.39660 |
| .902 | 367 | .02510 | -10.18500 | 5.22270 | .08040 | 25.00000 | .00000 | -10.36400 | 5.05370 | 5.39180 |
| .902 | 2.926 | .01570 | -10.18500 | 5.22270 | .08040 | 25.00000 | .00000 | -10.36400 | 5.05370 | 5.39180 |
| .899 | 5.475 | .05620 | -10.18800 | 5.22000 | .08040 | 25.00000 | .00000 | -10.36400 | 5.05370 | 5.39180 |
| .897 | 7.531 | .06300 | -10.18500 | 5.22270 | .07040 | 25.00000 | .00000 | -10.36400 | 5.05370 | 5.39180 |
| .901 | 8.584 | .07220 | -10.18800 | 5.22000 | .07040 | 25.00000 | .00000 | -10.36400 | 5.05370 | 5.39180 |
| .901 | 10.607 | .08560 | -10.19000 | 5.22240 | .07040 | 25.00000 | .00000 | -10.36800 | 5.05370 | 5.39660 |
| .899 | 12.685 | .08820 | -10.19300 | 5.22490 | .07040 | 25.00000 | .00000 | -10.36800 | 5.05370 | 5.39660 |
| | 15.759 | .11050 | -10.19000 | 5.21760 | .07040 | 25.00000 | .00000 | -10.36800 | 5.05370 | 5.38700 |
| | GRADIENT | .00675 | .00028 | .00033 | .00000 | .00000 | .00000 | .00069 | .00000 | .00067 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(CF053) (16 JUL 77)

AMES 118-1-11 OAI45A 01

PARAMETRIC DATA

BETA =
AILRON =
SPDBRK =
RN/L =
ELEVON = -10.000
BDFLAP = .000
RUDDER = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500
XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

RUN NO. 233/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-08 | AIL-08 |
|-------|----------|---------|----------|---------|--------|----------|--------|----------|---------|---------|
| 1.202 | -4.500 | -.02710 | -9.88070 | 5.05430 | .01000 | 25.00000 | .07670 | -9.87200 | 5.03670 | 5.09200 |
| 1.202 | -.794 | .00310 | -9.88350 | 5.06160 | .01000 | 25.00000 | .05970 | -9.87200 | 5.03110 | 5.09200 |
| 1.201 | 1.776 | .01500 | -9.88330 | 5.06160 | .01000 | 25.00000 | .07670 | -9.88170 | 5.03110 | 5.09210 |
| 1.199 | 4.307 | .02330 | -9.88330 | 5.06160 | .01000 | 25.00000 | .08520 | -9.88170 | 5.03110 | 5.09210 |
| 1.196 | 6.324 | .06060 | -9.89090 | 5.06420 | .01000 | 25.00000 | .07670 | -9.88170 | 5.03630 | 5.09210 |
| 1.199 | 7.362 | .06180 | -9.88830 | 5.06160 | .01000 | 25.00000 | .08520 | -9.88170 | 5.03110 | 5.09210 |
| 1.196 | 9.434 | .08800 | -9.88830 | 5.06160 | .01000 | 25.00000 | .07670 | -9.88170 | 5.03110 | 5.09210 |
| 1.202 | 11.524 | .08860 | -9.88830 | 5.06160 | .01000 | 25.00000 | .05970 | -9.88170 | 5.03110 | 5.09210 |
| 1.199 | 14.560 | .07330 | -9.89070 | 5.05920 | .01000 | 25.00000 | .05970 | -9.88650 | 5.03110 | 5.08730 |
| | GRADIENT | .00574 | -.00095 | -.00030 | .00000 | .00000 | .00122 | -.00130 | -.00062 | .00001 |

RUN NO. 224/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-08 | AIL-08 |
|-------|----------|---------|----------|---------|--------|----------|---------|----------|---------|---------|
| 1.299 | -5.915 | -.02050 | -9.89310 | 5.05680 | .01000 | 25.00000 | .00000 | -9.89130 | 5.03110 | 5.08250 |
| 1.300 | -.829 | -.00650 | -9.89340 | 5.05160 | .01000 | 25.00000 | .01700 | -9.88640 | 5.02560 | 5.07760 |
| 1.299 | 1.730 | .00480 | -9.89590 | 5.05400 | .01000 | 25.00000 | .01700 | -9.89130 | 5.02560 | 5.08250 |
| 1.296 | 4.217 | .01030 | -9.89590 | 5.05400 | .02000 | 25.00000 | .00850 | -9.89130 | 5.02560 | 5.08250 |
| 1.295 | 6.249 | .04840 | -9.89590 | 5.05400 | .02000 | 25.00000 | .00000 | -9.89130 | 5.02560 | 5.08250 |
| 1.299 | 7.285 | .05020 | -9.89590 | 5.05400 | .02000 | 25.00000 | .01670 | -9.89610 | 5.02520 | 5.07770 |
| 1.299 | 9.374 | .05830 | -9.90360 | 5.05140 | .02000 | 25.00000 | .00000 | -9.89130 | 5.02000 | 5.08250 |
| 1.310 | 11.436 | .06910 | -9.89870 | 5.05130 | .02000 | 25.00000 | .00000 | -9.89130 | 5.02000 | 5.08250 |
| 1.306 | 14.566 | .04680 | -9.89870 | 5.05130 | .02000 | 25.00000 | .00168 | -.00098 | .00000 | .00098 |
| | GRADIENT | .00333 | -.00050 | .00048 | .00197 | .00000 | -.00168 | .00000 | .00000 | .00000 |

RUN NO. 215/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-08 | AIL-08 |
|-------|----------|---------|----------|---------|--------|----------|---------|----------|---------|---------|
| 1.399 | -5.120 | -.02420 | -9.88590 | 5.05920 | .01000 | 25.00000 | .05970 | -9.87680 | 5.03110 | 5.08720 |
| 1.409 | .012 | -.00120 | -9.89100 | 5.05400 | .01000 | 25.00000 | .05110 | -9.88160 | 5.02560 | 5.08240 |
| 1.405 | 2.588 | .00420 | -9.89100 | 5.05400 | .01000 | 25.00000 | .05110 | -9.88160 | 5.02560 | 5.08240 |
| 1.400 | 5.140 | .03380 | -9.89100 | 5.05400 | .01000 | 25.00000 | .05110 | -9.88160 | 5.02560 | 5.08240 |
| 1.401 | 7.231 | .04490 | -9.89100 | 5.05400 | .01000 | 25.00000 | .05970 | -9.88160 | 5.02560 | 5.08240 |
| 1.402 | 8.268 | .04940 | -9.89590 | 5.05400 | .01000 | 25.00000 | .05970 | -9.88160 | 5.02560 | 5.08240 |
| 1.398 | 10.337 | .05990 | -9.89100 | 5.05400 | .01000 | 25.00000 | .05970 | -9.88160 | 5.02560 | 5.08240 |
| 1.398 | 12.420 | .05990 | -9.89100 | 5.05400 | .01000 | 25.00000 | .05970 | -9.88160 | 5.02560 | 5.08240 |
| | GRADIENT | .00210 | .00000 | .00000 | .00000 | .00000 | -.00000 | .00000 | .00000 | .00000 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(C2F054) (22 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 AILRON = 5.000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

| RUN NO. | | 0 / 0 | | RN/L = 4.98 | | GRADIENT INTERVAL = -5.00/ 5.00 | | | | | |
|---------|----------|--------|---------|-------------|----------|---------------------------------|-----------|-----------|---------|----------|--|
| ELEVON | ALPHA | BETA | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B | |
| .599 | -29.973 | .04640 | 4.92580 | .01000 | 25.00000 | .00000 | -30.05900 | -29.88700 | 5.00240 | 4.84920 | |
| .600 | -20.000 | .04020 | 4.94760 | .01000 | 25.00000 | .00000 | -19.93500 | -20.06500 | 4.97060 | 4.92460 | |
| .600 | -14.938 | .04070 | 4.98040 | .01000 | 25.00000 | .00000 | -14.92200 | -14.95300 | 4.99790 | 4.96300 | |
| .599 | -9.896 | .04540 | 5.05940 | .01000 | 25.00000 | .00000 | -9.90010 | -9.89130 | 5.03630 | 5.08250 | |
| .599 | -5.972 | .04440 | 4.99180 | .01000 | 25.00000 | .00000 | -5.94840 | -5.99560 | 4.95780 | 5.02590 | |
| .599 | -3.962 | .04580 | 4.93630 | .01000 | 25.00000 | .00000 | -3.94930 | -3.97490 | 4.93850 | 4.93420 | |
| .599 | -1.983 | .04720 | 4.98220 | .01000 | 25.00000 | .00000 | -1.96230 | -2.00260 | 4.97700 | 4.98740 | |
| .599 | .038 | .04800 | 4.92500 | .01000 | 25.00000 | .00000 | .00850 | .06720 | 4.89170 | 4.95830 | |
| .599 | 2.044 | .04830 | 4.92170 | .01000 | 25.00000 | .00000 | 2.07250 | 2.01650 | 4.89640 | 4.94700 | |
| .599 | 4.004 | .04980 | 4.98360 | .01000 | 25.00000 | .00000 | 4.11890 | 3.88840 | 5.10880 | 4.85840 | |
| .598 | 6.117 | .05110 | 5.09910 | .01000 | 25.00000 | .00000 | 6.08500 | 6.14830 | 5.09490 | 5.10320 | |
| .599 | 9.916 | .05250 | 5.10260 | .01000 | 25.00000 | .00000 | 10.00300 | 9.82950 | 5.01920 | 5.18600 | |
| .599 | 14.888 | .05550 | 5.22570 | .01000 | 25.00000 | .00000 | 15.08300 | 14.69300 | 5.08760 | 5.36390 | |
| .600 | GRADIENT | .00046 | .00166 | .00000 | - .00000 | .00000 | 1.01060 | .98938 | .01291 | - .00960 | |

| MACH | ELEVON | ALPHA | BETA | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|---------|---------|--------|----------|---------|-----------|-----------|---------|---------|
| .800 | -29.978 | 4.10420 | .03530 | 4.92580 | .00000 | 25.00000 | -.00840 | -30.05900 | -29.89700 | 5.00240 | 4.84910 |
| .802 | -19.998 | 4.15340 | .03140 | 4.94000 | .00000 | 25.00000 | -.01670 | -19.93500 | -20.06000 | 4.96020 | 4.91980 |
| .801 | -14.935 | 4.21390 | .02940 | 4.98290 | .00000 | 25.00000 | .03410 | -14.92200 | -14.94900 | 4.99790 | 4.96790 |
| .801 | -9.898 | 4.27700 | .02870 | 5.06200 | .00000 | 25.00000 | .01700 | -9.90520 | -9.89130 | 5.04140 | 5.08250 |
| .801 | -5.974 | 4.35280 | .03260 | 4.99000 | .01000 | 25.00000 | .02560 | -5.93140 | -6.01630 | 4.96360 | 5.01630 |
| .800 | -3.972 | 4.39240 | .03520 | 4.93680 | .00000 | 25.00000 | .02560 | -3.94930 | -3.99410 | 4.93850 | 4.93520 |
| .800 | -1.998 | 4.43310 | .03820 | 4.98180 | .00000 | 25.00000 | .05970 | -1.97800 | -2.01790 | 4.98160 | 4.98210 |
| .800 | .038 | 4.25770 | .02820 | 4.92030 | .00000 | 25.00000 | .02560 | .00850 | .06680 | 4.89170 | 4.94900 |
| .800 | 2.049 | 4.30360 | .02990 | 4.92610 | .00000 | 25.00000 | .01700 | 2.07250 | 2.02540 | 4.89640 | 4.95590 |
| .800 | 4.004 | 4.35210 | .03170 | 4.97910 | .00000 | 25.00000 | .02560 | 4.11990 | 3.88840 | 5.09970 | 4.85840 |
| .801 | 6.125 | 4.39910 | .03320 | 5.09720 | .00000 | 25.00000 | .05110 | 6.11420 | 6.13550 | 5.10410 | 5.09040 |
| .801 | 9.922 | 4.48470 | .03540 | 5.09810 | .00000 | 25.00000 | .01700 | 10.00800 | 9.83460 | 5.02500 | 5.17130 |
| .801 | 14.886 | 4.25850 | .02780 | 5.21920 | .00000 | 25.00000 | .03410 | 15.08400 | 14.68700 | 5.09750 | 5.34080 |
| .801 | GRADIENT | -.01061 | -.00077 | .00139 | .00000 | -.00000 | -.00216 | 1.00944 | .99054 | .01171 | -.00896 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

PAGE 1035
(C2F054) (22 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

RUN NO.

RN/L = 4.97

GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ALPHA | BETA | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|--------|---------|---------|----------|---------|-----------|-----------|---------|---------|
| .901 | -30.726 | 5.24880 | .06060 | 5.35860 | -.09050 | 25.00000 | -.05860 | -30.22800 | -31.22400 | 4.98390 | 5.73340 |
| .902 | -20.474 | 5.50950 | .06430 | 5.17160 | -.09040 | 25.00000 | -.05690 | -20.07700 | -20.87200 | 4.98830 | 5.35500 |
| .902 | -15.355 | 5.58280 | .06310 | 5.22590 | -.09050 | 25.00000 | -.05690 | -15.04100 | -15.87000 | 5.01760 | 5.43420 |
| .901 | -10.177 | 5.53490 | .05540 | 5.21520 | -.09050 | 25.00000 | -.05860 | -9.99600 | -10.39900 | 5.04340 | 5.38700 |
| .902 | -6.220 | 5.54320 | .05210 | 5.12190 | -.08040 | 25.00000 | -.05020 | -6.04420 | -6.39470 | 4.97390 | 5.27000 |
| .899 | -4.160 | 5.56360 | .05150 | 5.03810 | -.09050 | 25.00000 | -.05860 | -4.04620 | -4.27340 | 4.94360 | 5.13250 |
| .901 | -2.135 | 5.56250 | .05020 | 5.08270 | -.09050 | 25.00000 | -.05860 | -2.02350 | -2.24680 | 5.01610 | 5.14920 |
| .900 | -.102 | 5.53660 | .04910 | 4.99480 | -.09040 | 25.00000 | -.05860 | -.07760 | -.12590 | 4.89640 | 5.09310 |
| .900 | 1.941 | 5.56750 | .05040 | 4.97180 | -.09050 | 25.00000 | -.05860 | 1.99580 | 1.88720 | 4.90280 | 5.04070 |
| .900 | 3.951 | 5.60270 | .05240 | 5.00420 | -.08040 | 25.00000 | -.05860 | 4.07870 | 3.82340 | 5.10810 | 4.90020 |
| .900 | 6.085 | 5.58060 | .05300 | 5.11950 | -.08040 | 25.00000 | -.05860 | 6.03520 | 6.13330 | 5.11450 | 5.12470 |
| .899 | 9.966 | 5.58970 | .05200 | 5.06950 | -.08040 | 25.00000 | -.05860 | 9.95410 | 9.97700 | 5.03340 | 5.10570 |
| .900 | 15.012 | 5.60170 | .04830 | 5.14560 | -.08040 | 25.00000 | -.05860 | 15.07000 | 14.95400 | 5.11150 | 5.17960 |
| | GRADIENT | .00390 | .00010 | -.00882 | .00099 | .00000 | .00000 | .99854 | 1.00146 | .01058 | -.02822 |

RUN NO.

RN/L = 4.99

GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ALPHA | BETA | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|---------|---------|----------|--------|-----------|-----------|---------|---------|
| .952 | -30.725 | 4.98180 | .05980 | 5.37470 | -.08040 | 25.00000 | .00000 | -30.21500 | -31.23600 | 5.01470 | 5.73470 |
| .951 | -20.456 | 5.23300 | .06290 | 5.16980 | -.08040 | 25.00000 | .00850 | -20.06600 | -20.84500 | 4.96720 | 5.37230 |
| .953 | -15.364 | 5.24700 | .05940 | 5.23450 | -.08040 | 25.00000 | .00850 | -15.04600 | -15.68200 | 5.02290 | 5.44610 |
| .951 | -10.176 | 5.32800 | .06010 | 5.21160 | -.08040 | 25.00000 | .02560 | -10.01300 | -10.34000 | 5.02670 | 5.39660 |
| .951 | -6.214 | 5.18830 | .05550 | 5.13230 | -.07040 | 25.00000 | .02560 | -6.04420 | -6.38420 | 4.97390 | 5.29070 |
| .951 | -4.167 | 5.22310 | .05350 | 5.04050 | -.08040 | 25.00000 | .00000 | -4.05130 | -4.28330 | 4.93850 | 5.14240 |
| .950 | -2.156 | 5.25280 | .05090 | 5.07670 | -.08040 | 25.00000 | .00000 | -2.04000 | -2.27200 | 4.99960 | 5.15380 |
| .951 | -.108 | 5.28550 | .04850 | 4.99380 | -.08040 | 25.00000 | .00000 | -.05510 | -.16170 | 4.89730 | 5.09020 |
| .951 | 1.934 | 5.31830 | .04680 | 4.95330 | -.08040 | 25.00000 | .00000 | 1.98610 | 1.88270 | 4.87030 | 5.03630 |
| .951 | 3.930 | 5.29290 | .04580 | 4.99310 | -.08040 | 25.00000 | .00000 | 4.05740 | 3.80310 | 5.09660 | 4.88960 |
| .951 | 6.091 | 5.32480 | .04600 | 5.12990 | -.08040 | 25.00000 | .00000 | 6.05020 | 6.13110 | 5.13930 | 5.12040 |
| .950 | 9.969 | 5.28900 | .04710 | 5.06270 | -.08040 | 25.00000 | .00850 | 9.95990 | 9.97730 | 5.03910 | 5.08620 |
| .950 | 15.020 | 5.30310 | .05030 | 5.14100 | -.07040 | 25.00000 | .00850 | 15.05400 | 14.98500 | 5.10550 | 5.17640 |
| | GRADIENT | .01013 | -.00096 | -.01080 | -.00000 | .00000 | .00000 | .99789 | 1.00212 | .00910 | -.03069 |

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
AILRON = 5.000 BOFLAP = .000
SPOBRK = 25.000 RUDDER = .000
RN/L = 5.000

AMES 118-1-11 OAI45A 01

(C2F054) (22 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
AILRON = 5.000 BDFLAP = .000
SPOBRK = 25.000 RUDDER = .000
RN/L = 5.000

| RUN NO. | | 0/ 0 | | RN/L = 5.02 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|---------|----------|---------|--------|-------------|--------|---------------------------------|--------|
| MACH | ELEVON | ALPHA | BETA | AILRON | BOFLAP | SPOBRK | RUDDER |
| 1.202 | -29.965 | 4.16050 | .04110 | 4.92880 | .01000 | 25.00000 | .06820 |
| 1.202 | -19.985 | 4.28690 | .04540 | 4.94830 | .01000 | 25.00000 | .05110 |
| 1.202 | -14.932 | 4.35630 | .04870 | 4.99110 | .01000 | 25.00000 | .06820 |
| 1.201 | -9.883 | 4.42350 | .04700 | 5.06160 | .01000 | 25.00000 | .05970 |
| 1.199 | -5.969 | 4.45550 | .04130 | 5.00600 | .01000 | 25.00000 | .06820 |
| 1.199 | -3.967 | 4.31430 | .03760 | 4.94170 | .01000 | 25.00000 | .05970 |
| 1.200 | -1.990 | 4.34030 | .03590 | 4.98980 | .01000 | 25.00000 | .05970 |
| 1.199 | .042 | 4.36830 | .03580 | 4.92050 | .01000 | 25.00000 | .05970 |
| 1.200 | 2.057 | 4.39360 | .03710 | 4.92470 | .01000 | 25.00000 | .05970 |
| 1.201 | 4.004 | 4.41930 | .03920 | 4.97920 | .01000 | 25.00000 | .06820 |
| 1.199 | 6.117 | 4.44900 | .04130 | 5.10030 | .01000 | 25.00000 | .07670 |
| 1.190 | 9.921 | 4.38090 | .04790 | 5.10790 | .01000 | 25.00000 | .05970 |
| 1.202 | 14.878 | 4.44600 | .05370 | 5.20670 | .01000 | 25.00000 | .05970 |
| | GRADIENT | .01317 | .00022 | .00043 | .00000 | -.00000 | .00000 |

ELV-08
-29.88200
-20.04400
-14.94900
-9.87200
-6.00120
-3.98450
-2.00260
-.07170
2.03520
3.88460
6.12830
9.83430
14.67400
9.8937

AIL-1B
5.01340
4.97050
5.01430
5.03110
4.98050
4.94870
4.99220
4.88710
4.90340
5.10380
5.09450
5.02500
5.07760
-.01091

AIL-08
4.84420
4.92620
4.96790
5.09200
5.03150
4.93470
4.98740
4.95380
4.94610
4.85460
5.10610
5.19080
5.33570
-.01005

GRADIENT INTERVAL = -5.00/ 5.00

| RUN NO. | | 0/ 0 | | RN/L = 4.99 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|---------|----------|---------|---------|-------------|--------|---------------------------------|---------|
| MACH | ELEVON | ALPHA | BETA | AILRON | BOFLAP | SPOBRK | RUDDER |
| 1.297 | -29.986 | 4.21510 | .08720 | 4.92280 | .01000 | 25.00000 | -.02510 |
| 1.299 | -19.997 | 4.26200 | .09290 | 4.95020 | .01000 | 25.00000 | -.10040 |
| 1.300 | -14.937 | 4.26820 | .09220 | 4.98080 | .01000 | 25.00000 | -.12550 |
| 1.297 | -9.881 | 4.32490 | .08590 | 5.06980 | .01000 | 25.00000 | .00000 |
| 1.294 | -5.972 | 4.29660 | .08180 | 4.99750 | .01000 | 25.00000 | .01700 |
| 1.295 | -3.975 | 4.31630 | .08090 | 4.93400 | .01000 | 25.00000 | .02560 |
| 1.295 | -1.995 | 4.25320 | .07350 | 4.98960 | .01000 | 25.00000 | .00000 |
| 1.296 | .040 | 4.27630 | .07450 | 4.91860 | .01000 | 25.00000 | .03410 |
| 1.297 | 2.053 | 4.29610 | .07600 | 4.92500 | .01000 | 25.00000 | .03410 |
| 1.296 | 4.001 | 4.31730 | .07820 | 4.98610 | .01000 | 25.00000 | .04260 |
| 1.297 | 6.125 | 4.33750 | .08060 | 5.10150 | .01000 | 25.00000 | .03410 |
| 1.296 | 9.934 | 4.30830 | .05700 | 5.09620 | .01000 | 25.00000 | .01700 |
| 1.297 | 14.726 | 4.29580 | .06370 | 5.02920 | .02000 | 25.00000 | .04260 |
| | GRADIENT | .00225 | -.00015 | .00191 | .00000 | -.00000 | .00342 |

ELV-08
-29.90200
-20.06500
-14.95800
-9.86710
-5.99560
-3.98950
-2.02270
-.06640
2.02590
3.87840
6.14550
9.85920
14.50400
9.8934

AIL-1B
4.99140
4.97580
5.00340
5.05250
4.96910
4.92830
4.98210
4.89750
4.90340
5.10380
5.11410
5.03610
4.95360
-.01346

AIL-08
4.85420
4.92460
4.95810
5.08710
5.02590
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4.86840
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5.15630
5.10490
-.00964

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 AILRON = 5.000 BOFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 0/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ALPHA | BETA | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|----------|--------|----------|--------|----------|--------|-----------|-----------|---------|----------|
| 1.403 | -29.992 | 4.95420 | .05460 | 4.91780 | .01000 | 25.00000 | .00000 | -30.07100 | -29.91200 | 4.98150 | 4.85410 |
| 1.404 | -19.982 | 5.21410 | .05500 | 4.93530 | .01000 | 25.00000 | .00000 | -19.92000 | -20.04500 | 4.95470 | 4.91590 |
| 1.405 | -14.927 | 5.20350 | .04760 | 4.97020 | .01000 | 25.00000 | .00000 | -14.90000 | -14.95300 | 4.98730 | 4.95310 |
| 1.402 | -9.893 | 5.24990 | .04160 | 5.06730 | .01000 | 25.00000 | .00000 | -9.90480 | -9.88160 | 5.05210 | 5.08240 |
| 1.401 | -5.969 | 5.25190 | .03920 | 4.99500 | .02000 | 25.00000 | .00000 | -5.94260 | -5.99500 | 4.97480 | 5.01520 |
| 1.401 | -3.967 | 5.24940 | .03930 | 4.93150 | .01000 | 25.00000 | .00000 | -3.95440 | -3.97940 | 4.93340 | 4.92960 |
| 1.403 | -1.990 | 5.27070 | .04010 | 4.98460 | .01000 | 25.00000 | .00000 | -1.96230 | -2.01770 | 4.97700 | 4.99220 |
| 1.403 | .045 | 5.26480 | .04180 | 4.92330 | .02000 | 25.00000 | .00000 | .02350 | .06720 | 4.88830 | 4.95830 |
| 1.403 | 2.051 | 5.28200 | .04330 | 4.92370 | .02000 | 25.00000 | .00000 | 2.07250 | 2.03030 | 4.89640 | 4.95100 |
| 1.402 | 4.002 | 5.13420 | .04510 | 4.95710 | .01000 | 25.00000 | .00000 | 4.11770 | 3.88680 | 5.07730 | 4.83680 |
| 1.402 | 5.881 | 5.22330 | .04650 | 4.84730 | .01000 | 25.00000 | .00000 | 6.10440 | 5.65830 | 5.10440 | 4.59020 |
| 1.401 | 9.949 | 5.26430 | .05130 | 5.07500 | .01000 | 25.00000 | .00000 | 10.03000 | 9.86910 | 5.00360 | 5.14640 |
| 1.401 | 14.761 | 5.31870 | .05660 | 5.04150 | .02000 | 25.00000 | .00000 | 14.93400 | 14.58800 | 4.91950 | 5.16340 |
| 1.401 | GRADIENT | -0.01089 | .00074 | -0.00054 | .00051 | -0.00000 | .00000 | 1.00990 | .99009 | .01023 | -0.01131 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1038

AMES 118-1-11 OAI45A 01

(CZF055) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = 2.000
AILRON = 5.000 BOFLAP = .000
SPOBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 217/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ALPHA | BETA | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|---------|---------|---------|---------|----------|---------|-----------|-----------|---------|---------|
| 1.401 | -29.983 | 5.27540 | 2.24310 | 4.93100 | .02000 | 25.00000 | .03410 | -30.05400 | -29.91200 | 5.00790 | 4.89410 |
| 1.403 | -19.987 | 5.40830 | 2.23110 | 4.94020 | .02000 | 25.00000 | .02560 | -19.92000 | -20.05500 | 4.96520 | 4.91510 |
| 1.403 | -14.938 | 5.44720 | 2.22340 | 4.97560 | .02000 | 25.00000 | .02560 | -14.92700 | -14.94800 | 5.00320 | 4.94800 |
| 1.404 | -9.888 | 5.43870 | 2.21430 | 5.05680 | .02000 | 25.00000 | .02560 | -9.89490 | -9.88160 | 5.03110 | 5.08240 |
| 1.403 | -5.974 | 5.46850 | 2.21120 | 4.98960 | .02000 | 25.00000 | .02560 | -5.94270 | -6.00570 | 4.96350 | 5.01580 |
| 1.403 | -3.965 | 5.48420 | 2.21280 | 4.92870 | .02000 | 25.00000 | .02560 | -3.95950 | -3.96980 | 4.92830 | 4.92910 |
| 1.404 | -1.985 | 5.49860 | 2.21270 | 4.99000 | .02000 | 25.00000 | .02560 | -1.96190 | -2.00760 | 4.98760 | 4.99240 |
| 1.403 | .033 | 5.47330 | 2.21630 | 4.93610 | .02000 | 25.00000 | .01700 | .01890 | .04620 | 4.89290 | 4.97920 |
| 1.403 | 2.039 | 5.48700 | 2.22060 | 4.92990 | .02000 | 25.00000 | .02560 | 2.06080 | 2.01700 | 4.92220 | 4.93760 |
| 1.404 | 3.996 | 5.50000 | 2.22020 | 4.97550 | .02000 | 25.00000 | .02560 | 4.11170 | 3.87960 | 5.09150 | 4.85960 |
| 1.403 | 6.119 | 5.48350 | 2.22790 | 5.10260 | .02000 | 25.00000 | .02560 | 6.10910 | 6.12980 | 5.10910 | 5.09610 |
| 1.401 | 9.928 | 5.47930 | 2.23900 | 5.08960 | .02000 | 25.00000 | .02560 | 10.00200 | 9.85410 | 5.00810 | 5.17100 |
| 1.401 | 14.754 | 5.52170 | 2.25170 | 5.03900 | .02000 | 25.00000 | .01700 | 14.91400 | 14.59300 | 4.91890 | 5.15900 |
| 1.401 | GRADIENT | .00099 | .00114 | .00164 | -.00000 | -.00000 | -.00044 | 1.01102 | .98897 | .01299 | -.00969 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

AMES 118-1-11 0A145A 01

(C2F056) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 234/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

ALPHA = -5.000 BETA = .000
 AILRON = 5.000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

| MACH | ELEVON | ALPHA | BETA | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-1B | ELV-OB | AIL-1B | AIL-OB |
|-------|----------|----------|----------|---------|----------|----------|----------|-----------|-----------|---------|---------|
| 1.198 | -29.975 | -5.88330 | -0.04100 | 4.92820 | .01000 | 25.00000 | .06820 | -30.05800 | -29.89200 | 5.01230 | 4.84410 |
| 1.208 | -19.987 | -5.80520 | -0.04700 | 4.94510 | .01000 | 25.00000 | .06820 | -19.91500 | -20.06000 | 4.97030 | 4.91980 |
| 1.209 | -14.932 | -5.71840 | -0.04340 | 4.98050 | .01000 | 25.00000 | .05970 | -14.91100 | -14.95300 | 4.99810 | 4.96300 |
| 1.206 | -9.891 | -5.63470 | -0.03470 | 5.05880 | .01000 | 25.00000 | .05110 | -9.90050 | -9.88170 | 5.02560 | 5.09210 |
| 1.206 | -5.972 | -5.57220 | -0.03960 | 5.00310 | .01000 | 25.00000 | .05110 | -5.94260 | -6.00120 | 4.97480 | 5.03150 |
| 1.202 | -3.970 | -5.55030 | -0.04110 | 4.94390 | .01000 | 25.00000 | .05110 | -3.94930 | -3.99000 | 4.93850 | 4.94930 |
| 1.204 | -1.985 | -5.52220 | -0.04530 | 4.99000 | .01000 | 25.00000 | .05110 | -1.96190 | -2.00760 | 4.98760 | 4.99240 |
| 1.202 | .052 | -5.49710 | -0.04120 | 4.91660 | .01000 | 25.00000 | .05110 | .02350 | .08060 | 4.88830 | 4.94490 |
| 1.203 | 2.049 | -5.47350 | -0.04440 | 4.92610 | .01000 | 25.00000 | .04260 | 2.07250 | 2.02540 | 4.89640 | 4.95590 |
| 1.202 | 4.006 | -5.44930 | -0.04220 | 4.98110 | .01000 | 25.00000 | .05110 | 4.11890 | 3.89340 | 5.10880 | 4.85340 |
| 1.202 | 6.124 | -5.42750 | -0.04050 | 5.10200 | .01000 | 25.00000 | .05110 | 6.10940 | 6.13830 | 5.09930 | 5.10460 |
| 1.201 | 9.914 | -5.38880 | -0.03520 | 5.10570 | .02000 | 25.00000 | .05970 | 10.00300 | 9.82470 | 5.03030 | 5.18120 |
| 1.201 | 14.858 | -5.33910 | -0.03070 | 5.19500 | .02000 | 25.00000 | .05110 | 15.03300 | 14.68400 | 5.03770 | 5.35430 |
| 1.201 | GRADIENT | .01254 | -0.00006 | .00046 | -0.00000 | -0.00000 | -0.00043 | 1.00919 | .99078 | .01232 | -0.1139 |

AMES 11B-1-11 0A143A 01

REFERENCE DATA

| | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|--------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. YO |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. ZO |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. ZO |
| SCALE | = | .0500 | | | | | |

BETA
AILRON
SPOBRK
RN/L

| | | |
|--------|----------|---------|
| .000 | ELEVON = | .000 |
| .000 | BDFLAP = | -11.700 |
| 25.000 | RUDDER = | .000 |
| 5.000 | | |

PARAMETRIC DATA

GRADIENT INTERVAL = -5.00/ 5.00

RN/L = 4.94

297/ 0

RUN NO.

MACU

AI BHA

BETA

ELEVON

AIRON

11. CEE300
BDF LAP

00000 SF DAKK

05020

.01500

08210.

08480

08710.
01280

GRADIENT

GRADIENT INTERVAL = -5.00/ 5.00

1/180

•

33

MACH

ALPHA

BETA

NOV 37 3
ELEVON 0:300

ALKON
- 00560

-11.65200

5.00000

- .04180 -

01020.

05110.

00030
00030

-.01150

GRADIENT

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

PAGE 1041
(CF057) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

BETA =
AILRON =
SPDBRK =
RN/L =

ELEVON = .000
BDFLAP = -11.700
RUDDER = .000

PARAMETRIC DATA

RUN NO. 288/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-08 | ELV-18 | AIL-18 |
|------|----------|---------|--------|---------|-----------|----------|---------|---------|---------|---------|---------|
| .901 | -5.079 | -.04480 | .02120 | -.00590 | -11.65200 | 25.00000 | .06820 | .01720 | .00540 | .01720 | .00540 |
| .901 | -.102 | -.00260 | .01870 | -.00850 | -11.65200 | 25.00000 | .09370 | .01720 | .00030 | .01720 | .00030 |
| .899 | 2.461 | .00980 | .01870 | -.00850 | -11.65200 | 25.00000 | .06820 | .01720 | .00030 | .01720 | .00030 |
| .896 | 5.000 | .04780 | .01870 | -.00850 | -11.65200 | 25.00000 | .03410 | .01720 | .00030 | .01720 | .00030 |
| .899 | 6.016 | .05250 | .01870 | -.00850 | -11.65200 | 25.00000 | .01700 | .01720 | .00030 | .01720 | .00030 |
| .899 | 7.047 | .05640 | .02110 | -.01090 | -11.65200 | 25.00000 | .01700 | .01720 | .00470 | .01720 | .00470 |
| .898 | 8.076 | .05930 | .01580 | -.00560 | -11.65200 | 25.00000 | .02560 | .01150 | .00030 | .01150 | .00030 |
| .899 | 9.148 | .07310 | .01580 | -.00560 | -11.65200 | 25.00000 | .03410 | .01150 | .00030 | .01150 | .00030 |
| .899 | 10.118 | .07480 | .01580 | -.00560 | -11.65200 | 25.00000 | .07670 | .01570 | .00030 | .01570 | .00030 |
| .897 | 11.189 | .07900 | .01790 | -.00350 | -11.65200 | 25.00000 | .10230 | .01720 | .00030 | .01720 | .00030 |
| .899 | 12.200 | .07620 | .01860 | -.01350 | -11.65200 | 25.00000 | .14490 | .01720 | .00980 | .01720 | .00980 |
| .897 | 13.239 | .07930 | .01580 | -.00560 | -11.64200 | 25.00000 | .20450 | .01150 | .00030 | .01150 | .00030 |
| .897 | 15.258 | .10170 | .01610 | -.01100 | -11.64200 | 25.00000 | .26420 | .01720 | .00480 | .01720 | .00480 |
| .903 | GRADIENT | .00484 | .00000 | .00000 | .00000 | .00000 | -.00995 | -.00000 | -.00000 | -.00000 | -.00000 |

RUN NO. 282/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-08 | ELV-18 | AIL-18 |
|------|----------|---------|---------|---------|-----------|----------|--------|---------|--------|---------|--------|
| .952 | -5.075 | -.04520 | .01290 | -.00270 | -11.66200 | 25.00000 | .00840 | .00570 | .00030 | .00570 | .00030 |
| .952 | -.068 | -.00300 | .01750 | -.00310 | -11.66200 | 25.00000 | .00000 | .01000 | .00470 | .01000 | .00470 |
| .950 | 2.467 | .00960 | .01290 | -.00270 | -11.66200 | 25.00000 | .04260 | .00570 | .00030 | .00570 | .00030 |
| .946 | 5.034 | .04800 | .01290 | -.00270 | -11.66200 | 25.00000 | .00000 | .00570 | .00030 | .00570 | .00030 |
| .949 | 6.022 | .05160 | .01000 | .00010 | -11.66200 | 25.00000 | .01700 | .00000 | .00030 | .00000 | .00030 |
| .948 | 7.066 | .05530 | .01290 | -.00270 | -11.66200 | 25.00000 | .03410 | .00570 | .00030 | .00570 | .00030 |
| .947 | 8.086 | .05970 | .01500 | -.00060 | -11.66200 | 25.00000 | .05970 | .01000 | .00030 | .01000 | .00030 |
| .954 | 9.110 | .07040 | .01500 | -.00560 | -11.66200 | 25.00000 | .12550 | .01000 | .00980 | .01000 | .00980 |
| .944 | 10.250 | .07240 | .01290 | -.00270 | -11.66200 | 25.00000 | .05970 | .00570 | .00030 | .00570 | .00030 |
| .945 | 11.198 | .08530 | .01290 | -.00270 | -11.66200 | 25.00000 | .11080 | .00570 | .00030 | .00570 | .00030 |
| .946 | 12.192 | .07430 | .01290 | -.00270 | -11.66200 | 25.00000 | .00840 | .00570 | .00030 | .00570 | .00030 |
| .947 | 13.209 | .07660 | .01500 | -.00060 | -11.66200 | 25.00000 | .09200 | .01000 | .00030 | .01000 | .00030 |
| .951 | 15.291 | .08990 | .01290 | -.00270 | -11.65200 | 25.00000 | .10040 | .00570 | .00030 | .00570 | .00030 |
| | GRADIENT | .00497 | -.00181 | .00016 | .00000 | -.00000 | .01681 | -.00170 | .00197 | -.00170 | .00166 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1043

AMES 118-1-11 OAI45A 01

(C2F057) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = -11.700
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 306/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|---------|---------|---------|-----------|----------|---------|---------|---------|---------|---------|
| 1.296 | -5.118 | -0.030 | .0200 | -.00130 | -11.66200 | 25.00000 | .04260 | .02010 | .02000 | .00030 | -.00300 |
| 1.300 | -.074 | -.00480 | .02000 | -.00130 | -11.66200 | 25.00000 | .05110 | .02010 | .02000 | .00030 | -.00300 |
| 1.296 | 2.498 | .01500 | .01540 | -.00600 | -11.66200 | 25.00000 | .05110 | .01500 | .01570 | -.00480 | -.00720 |
| 1.294 | 5.076 | .04850 | .01750 | -.00390 | -11.66200 | 25.00000 | .05110 | .01500 | .02000 | -.00480 | -.00300 |
| 1.295 | 6.134 | .05100 | .01750 | -.00390 | -11.66200 | 25.00000 | .05970 | .01500 | .02000 | -.00480 | -.00300 |
| 1.294 | 7.113 | .05050 | .01750 | -.00390 | -11.66200 | 25.00000 | .05970 | .01500 | .02000 | -.00480 | -.00300 |
| 1.295 | 8.165 | .05920 | .01750 | -.00390 | -11.66200 | 25.00000 | .05970 | .01500 | .02000 | -.00480 | -.00300 |
| 1.294 | 9.179 | .06310 | .01750 | -.00390 | -11.66200 | 25.00000 | .05970 | .01500 | .01570 | -.00480 | -.00720 |
| 1.294 | 10.237 | .06930 | .01540 | -.00600 | -11.66200 | 25.00000 | .05970 | .01500 | .02000 | -.00480 | -.00300 |
| 1.294 | 11.266 | .07800 | .01750 | -.00390 | -11.66200 | 25.00000 | .04260 | .02000 | .02570 | -.00980 | -.00870 |
| 1.294 | 12.303 | .06830 | .02280 | -.00920 | -11.66200 | 25.00000 | .04260 | .02000 | .02000 | -.00980 | -.00300 |
| 1.292 | 13.351 | .06430 | .02000 | -.00640 | -11.66200 | 25.00000 | .04260 | .02000 | .02570 | -.00980 | -.00870 |
| 1.290 | 15.414 | .07200 | .02280 | -.00920 | -11.66200 | 25.00000 | .04260 | .02000 | .02570 | -.00980 | -.00870 |
| | GRADIENT | .00770 | -.00179 | -.00183 | .00000 | .00000 | -.00000 | -.00198 | -.00167 | -.00198 | -.00163 |

RUN NO. 301/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|---------|--------|---------|-----------|----------|--------|---------|--------|---------|---------|
| 1.401 | -5.082 | -.03740 | .01760 | .00200 | -11.65200 | 25.00000 | .00000 | .02520 | .01000 | .00540 | -.00150 |
| 1.403 | -.042 | -.00960 | .01290 | -.00270 | -11.65200 | 25.00000 | .00000 | .02010 | .00570 | .00030 | -.00570 |
| 1.400 | 2.597 | .00440 | .01290 | -.00270 | -11.65200 | 25.00000 | .00000 | .02010 | .00570 | .00030 | -.00570 |
| 1.400 | 5.039 | .04060 | .01290 | -.00270 | -11.65200 | 25.00000 | .00000 | .01500 | .00570 | -.00480 | -.00570 |
| 1.402 | 6.052 | .04610 | .01040 | -.00530 | -11.65200 | 25.00000 | .00000 | .01500 | .00570 | -.00480 | -.00570 |
| 1.402 | 7.074 | .04550 | .01040 | -.00530 | -11.65200 | 25.00000 | .00000 | .01000 | .00570 | -.00480 | -.00570 |
| 1.401 | 8.104 | .04980 | .00790 | -.00280 | -11.64200 | 25.00000 | .00000 | .00500 | .00570 | -.00500 | -.00570 |
| 1.400 | 9.123 | .05650 | .00530 | -.00530 | -11.64200 | 25.00000 | .00000 | .00500 | .00570 | -.00500 | -.00570 |
| 1.400 | 10.165 | .06190 | .00780 | -.00530 | -11.64200 | 25.00000 | .00000 | .00990 | .00570 | -.00990 | -.00570 |
| 1.399 | 11.191 | .06770 | .01040 | -.00530 | -11.64200 | 25.00000 | .00000 | .01500 | .00570 | -.00480 | -.00570 |
| 1.399 | 12.230 | .06490 | .01040 | -.00530 | -11.64200 | 25.00000 | .00000 | .00990 | .00570 | -.00480 | -.00570 |
| 1.398 | 13.268 | .05800 | .00780 | -.00780 | -11.65200 | 25.00000 | .00000 | .00990 | .00570 | -.00990 | -.00570 |
| 1.393 | 15.334 | .06990 | .00530 | -.00530 | -11.65200 | 25.00000 | .00000 | .00570 | .00570 | -.00500 | -.00570 |
| | GRADIENT | .00531 | .00000 | .00000 | .00000 | -.00000 | .00000 | -.00000 | .00000 | .00000 | .00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

PAGE 1044
(C2F058) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000
AILRON = .000
SPDBRK = 25.000
RN/L = 5.000
ELEVON = .000
BDFLAP = 16.300
RUDDER = .000

RUN NO. 298/ 0 RN/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|--------|---------|----------|----------|---------|--------|---------|---------|
| .598 | -5.019 | -.03890 | .02250 | -.00380 | 16.31100 | 25.00000 | -.05860 | .02000 | -.00470 | -.00300 |
| .598 | -.051 | -.00340 | .02000 | -.00130 | 16.30100 | 25.00000 | -.04180 | .02000 | .00030 | -.00300 |
| .597 | 2.496 | .00890 | .02000 | -.00130 | 16.32100 | 25.00000 | -.04180 | .02000 | .00030 | -.00300 |
| .596 | 5.000 | .04020 | .01720 | .00150 | 16.31100 | 25.00000 | -.03350 | .01420 | .00030 | .00280 |
| .598 | 6.008 | .05070 | .01430 | .00440 | 16.31100 | 25.00000 | -.03350 | .00850 | .00030 | .00850 |
| .597 | 7.047 | .05530 | .01180 | .00180 | 16.31100 | 25.00000 | -.02510 | .00850 | -.00480 | .00850 |
| .598 | 8.082 | .06110 | .01430 | .00440 | 16.31100 | 25.00000 | -.04180 | .00850 | .00030 | .00850 |
| .597 | 9.085 | .06790 | .01430 | .00440 | 16.31100 | 25.00000 | -.05020 | .00850 | .00030 | .00850 |
| .597 | 10.121 | .07590 | .01180 | .00180 | 16.31100 | 25.00000 | -.04180 | .00430 | .00010 | .00430 |
| .598 | 11.160 | .08090 | .00710 | .00220 | 16.31100 | 25.00000 | -.04180 | .01280 | .00010 | .01280 |
| .597 | 12.208 | .08110 | .01140 | .00540 | 16.31100 | 25.00000 | -.03350 | .01280 | -.00480 | .01280 |
| .597 | 13.160 | .08560 | .01390 | .00400 | 16.31100 | 25.00000 | -.03350 | .00000 | -.00000 | .00000 |
| .596 | 15.194 | .10680 | .00000 | .00000 | .00785 | .00000 | .00000 | .00000 | .00000 | .00000 |
| | GRADIENT | .00483 | .00000 | .00000 | | | | | | |

RUN NO. 292/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|--------|---------|----------|----------|---------|--------|---------|---------|
| .799 | -5.064 | -.03720 | .01290 | -.00270 | 16.32100 | 25.00000 | -.02510 | .00570 | .00030 | -.00570 |
| .800 | -.044 | -.00020 | .01290 | -.00270 | 16.32100 | 25.00000 | -.01670 | .00570 | .00030 | -.00570 |
| .797 | 2.462 | .01190 | .01290 | -.00270 | 16.32100 | 25.00000 | -.02510 | .00570 | .00030 | -.00570 |
| .797 | 4.978 | .04880 | .01290 | -.00270 | 16.32100 | 25.00000 | -.01670 | .00570 | .00030 | -.00570 |
| .798 | 6.012 | .05360 | .01290 | -.00270 | 16.32100 | 25.00000 | -.02510 | .00570 | .00030 | -.00570 |
| .799 | 7.029 | .05330 | .01290 | -.00270 | 16.32100 | 25.00000 | -.02510 | .00570 | .00030 | -.00570 |
| .799 | 8.082 | .06240 | .01290 | -.00270 | 16.32100 | 25.00000 | -.03350 | .00570 | .00030 | -.00570 |
| .799 | 9.116 | .07350 | .01500 | -.00060 | 16.32100 | 25.00000 | -.04180 | .01000 | .00030 | -.00150 |
| .798 | 10.118 | .07910 | .01040 | -.00530 | 16.32100 | 25.00000 | -.02510 | .00570 | -.00480 | -.00570 |
| .800 | 11.150 | .08080 | .01070 | -.01070 | 16.32100 | 25.00000 | -.02510 | .01150 | -.00990 | -.01150 |
| .799 | 12.186 | .07740 | .01290 | -.00270 | 16.32100 | 25.00000 | -.02510 | .00570 | -.00480 | -.00570 |
| .796 | 13.204 | .08060 | .01040 | -.00530 | 16.32100 | 25.00000 | -.03350 | .00570 | -.00480 | -.00570 |
| .797 | 15.250 | .10160 | .01040 | -.00530 | .00000 | .00000 | .00000 | .00000 | -.00000 | .00000 |
| | GRADIENT | .00976 | .00000 | .00000 | | | | | | |

(C2F058) (16 JUL 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = 16.300
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 289/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-OB | AIL-IB |
|------|----------|---------|--------|---------|----------|----------|---------|---------|---------|---------|
| .901 | -5.072 | -.03420 | .01320 | -.00810 | 16.31100 | 25.00000 | .06820 | .01150 | -.00480 | -.01150 |
| .901 | -.099 | -.00080 | .01830 | -.00810 | 16.32100 | 25.00000 | -.00840 | .01150 | -.00470 | -.01150 |
| .899 | 2.472 | .01090 | .01830 | -.00810 | 16.32100 | 25.00000 | -.03350 | .01150 | -.00470 | -.01150 |
| .897 | 5.009 | .04720 | .02110 | -.01090 | 16.32100 | 25.00000 | -.04180 | .01150 | -.00470 | -.01150 |
| .899 | 6.039 | .05140 | .01580 | -.00560 | 16.32100 | 25.00000 | -.04180 | .01150 | .00030 | -.01150 |
| .899 | 7.084 | .05560 | .01580 | -.00560 | 16.32100 | 25.00000 | -.05020 | .01150 | .00030 | -.01150 |
| .900 | 8.095 | .06050 | .01580 | -.00560 | 16.32100 | 25.00000 | -.04180 | .01150 | .00030 | -.01150 |
| .896 | 9.111 | .06530 | .01580 | -.00560 | 16.32100 | 25.00000 | -.05020 | .01150 | .00030 | -.01150 |
| .898 | 10.162 | .08000 | .01790 | -.00350 | 16.32100 | 25.00000 | -.03350 | .01570 | .00030 | -.00720 |
| .900 | 11.171 | .09420 | .01580 | -.00560 | 16.33100 | 25.00000 | -.01670 | .01150 | .00030 | -.01150 |
| .898 | 12.173 | .07420 | .01330 | -.00310 | 16.33100 | 25.00000 | -.00840 | .01150 | .00520 | -.01150 |
| .898 | 13.216 | .07670 | .01580 | -.00560 | 16.33100 | 25.00000 | .01700 | .01150 | .00030 | -.01150 |
| .899 | 15.298 | .09150 | .01320 | -.00810 | 16.33100 | 25.00000 | .03410 | .01150 | -.00480 | -.01150 |
| | GRADIENT | .00455 | .00000 | .00000 | .00000 | .00000 | -.00976 | -.00000 | .00000 | .00000 |

RUN NO. 284/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-OB | AIL-IB |
|------|----------|---------|--------|---------|----------|----------|---------|--------|---------|---------|
| .947 | -5.067 | -.04460 | .01290 | -.00270 | 16.32100 | 25.00000 | .06820 | .00570 | .00030 | -.00570 |
| .950 | -.049 | -.00140 | .01540 | -.00520 | 16.32100 | 25.00000 | .08520 | .00570 | -.00470 | -.00570 |
| .954 | 2.490 | .01030 | .01790 | -.00260 | 16.32100 | 25.00000 | .03410 | .00570 | .00040 | -.00570 |
| .953 | 5.028 | .04670 | .01790 | -.00260 | 16.32100 | 25.00000 | .00000 | .00570 | .00040 | -.00570 |
| .949 | 6.048 | .05180 | .01970 | .00410 | 16.32100 | 25.00000 | .00000 | .01420 | .00540 | .00280 |
| .950 | 7.068 | .05170 | .02220 | .00160 | 16.32100 | 25.00000 | .00000 | .01420 | .00040 | .00280 |
| .948 | 8.068 | .05920 | .01750 | -.00310 | 16.32100 | 25.00000 | .00000 | .01000 | -.00470 | -.00150 |
| .947 | 9.129 | .06310 | .01720 | .00230 | 16.32100 | 25.00000 | .01700 | .00430 | .00040 | .00430 |
| .947 | 10.186 | .07890 | .01760 | .00200 | 16.32100 | 25.00000 | .08520 | .01000 | .00540 | -.00150 |
| .947 | 11.167 | .07220 | .01500 | -.00060 | 16.32100 | 25.00000 | .13640 | .01000 | .00030 | -.00150 |
| .949 | 12.201 | .06980 | .01280 | -.00770 | 16.32100 | 25.00000 | .10230 | .00570 | -.00980 | -.00570 |
| .948 | 13.233 | .07330 | .01290 | -.00270 | 16.32100 | 25.00000 | .06820 | .00570 | .00030 | -.00570 |
| .951 | 15.300 | .08800 | .01290 | -.00270 | 16.32100 | 25.00000 | .05110 | .00570 | .00030 | -.00570 |
| | GRADIENT | .00461 | .00098 | .00102 | .00000 | .00000 | -.02013 | .00000 | .00201 | .00000 |

0A145 TABULATED FORCE DATA

JAMES 118-1-11 0A145A 01

DATE 10 MAR 80

(C2F058) (16 JUL 77)

REFERENCE DATA

| | | | | |
|-------|---|-----------|--------|------|
| SREF | = | 2690.0000 | SQ.FT. | YMRP |
| LREF | = | 474.8100 | INCHES | YMRP |
| BREF | = | 936.6800 | INCHES | ZMRP |
| SCALE | = | .0500 | | |

PARAMETRIC DATA

BETA
AILRON
SPDBRK
RN/L

| | | |
|--------|---|--------|
| ELEVON | = | .000 |
| BDFLAP | = | 16.300 |
| RUDDER | = | .000 |
| | | 25.000 |
| | | 5.000 |

| | | | | | | |
|--------|--------|--------|------|---------------------|--------|------|
| BIN NO | 316/ 0 | RN/1 = | 5.04 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|--------|--------|--------|------|---------------------|--------|------|

| MACH | ALPHA | BETA | ELEVON | AILIRON | BDFLAP | SPOBRK | RUDOER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|--------|---------|---------|---------|----------|----------|---------|--------|---------|---------|--------|
| 1.03 | -5.098 | -0.3870 | .01930 | .00370 | 16.32100 | 25.00000 | -.06690 | .02010 | .01850 | .00030 | .00700 |
| 1.103 | | | .01930 | .00370 | 16.32100 | 25.00000 | -.06690 | .02010 | .01850 | .00030 | .00700 |
| 1.107 | -.091 | -.00950 | .01930 | .00370 | 16.32100 | 25.00000 | -.07530 | .02010 | .01850 | .00030 | .00700 |
| 1.196 | 2.766 | .00630 | .01930 | .00370 | 16.32100 | 25.00000 | -.06690 | .02010 | .01850 | .00030 | .00700 |
| 1.095 | 5.030 | .04220 | .01930 | .00370 | 16.32100 | 25.00000 | -.06690 | .02010 | .01850 | .00030 | .00700 |
| 1.099 | 6.091 | .04610 | .01930 | .00370 | 16.32100 | 25.00000 | -.06690 | .02010 | .01850 | .00030 | .00700 |
| 1.098 | 7.179 | .04990 | .01930 | .00370 | 16.32100 | 25.00000 | -.07530 | .02010 | .01850 | .00030 | .00700 |
| 1.097 | 8.147 | .05330 | .01720 | .00150 | 16.32100 | 25.00000 | -.07530 | .02010 | .01200 | .00030 | .00280 |
| 1.097 | 9.172 | .05760 | .01670 | .00110 | 16.32100 | 25.00000 | -.08370 | .02010 | .01500 | -.00480 | .00700 |
| 1.097 | 10.209 | .06350 | .01930 | .00370 | 16.32100 | 25.00000 | -.08370 | .01500 | .01850 | .00030 | .00280 |
| 1.098 | 11.262 | .06370 | .01460 | -.00100 | 16.32100 | 25.00000 | -.08370 | .01500 | .01200 | -.00480 | .00280 |
| 1.098 | 12.315 | .05890 | .01670 | .00110 | 16.32100 | 25.00000 | -.09200 | .01500 | .01850 | -.00480 | .00700 |
| 1.096 | 13.391 | .06100 | .01670 | .00110 | 16.32100 | 25.00000 | -.09200 | .01500 | .01200 | -.00480 | .01280 |
| 1.092 | 15.350 | .06780 | .01390 | .00400 | 16.32100 | 25.00000 | -.09200 | .01500 | -.00000 | -.00480 | .00000 |
| 0.991 | 17.350 | .06518 | -.00000 | .00000 | .00350 | .00000 | -.00294 | .00000 | -.00000 | .00000 | .00000 |

| | | | | | |
|---------|--------|--------|------|---------------------|-------------|
| RUN NO. | 313/ 0 | RN/L = | 5.16 | GRADIENT INTERVAL = | -5.00/ 5.00 |
|---------|--------|--------|------|---------------------|-------------|

[illegible]

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1047

AMES 118-1-11 OAI45A 01

(C2F058) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = 16.300
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-1B | ELV-OB | AIL-1B | AIL-OB |
|--|----------|---------|---------|---------|----------|----------|---------|---------|---------|---------|---------|
| 1.299 | -5.093 | -.03920 | .02540 | -.00670 | 16.31100 | 25.00000 | .04260 | .02500 | .02570 | -.00470 | -.00870 |
| 1.299 | -.042 | -.00110 | .01610 | -.01100 | 16.31100 | 25.00000 | .04260 | .01500 | .01720 | -.00480 | -.01720 |
| 1.295 | 2.532 | .01710 | .01570 | -.01060 | 16.31100 | 25.00000 | .05110 | .02000 | .01150 | -.00980 | -.01150 |
| 1.293 | 5.066 | .04860 | .01540 | -.00600 | 16.31100 | 25.00000 | .05110 | .01500 | .01570 | -.00480 | -.00720 |
| 1.294 | 6.082 | .04960 | .01820 | -.00890 | 16.31100 | 25.00000 | .05970 | .01500 | .02150 | -.00480 | -.01300 |
| 1.294 | 7.142 | .05500 | .01820 | -.00890 | 16.32100 | 25.00000 | .05970 | .01500 | .02150 | -.00480 | -.01300 |
| 1.294 | 8.128 | .05790 | .01540 | -.00600 | 16.32100 | 25.00000 | .05970 | .01500 | .02150 | -.00480 | -.00720 |
| 1.294 | 9.137 | .06210 | .02070 | -.01140 | 16.32100 | 25.00000 | .05970 | .02000 | .02150 | -.00980 | -.01300 |
| 1.294 | 10.240 | .06800 | .01570 | -.01060 | 16.32100 | 25.00000 | .05970 | .01500 | .01720 | -.00480 | -.01720 |
| 1.293 | 11.244 | .07900 | .01610 | -.01100 | 16.32100 | 25.00000 | .05970 | .02000 | .01720 | -.00980 | -.01720 |
| 1.293 | 12.279 | .06210 | .01860 | -.01350 | 16.32100 | 25.00000 | .05110 | .02000 | .02150 | -.00980 | -.01720 |
| 1.292 | 13.354 | .05390 | .01850 | -.01350 | 16.32100 | 25.00000 | .05110 | .02000 | .02150 | -.00980 | -.01300 |
| 1.288 | 15.409 | .07730 | .02070 | -.01140 | 16.31100 | 25.00000 | .05110 | .02000 | .02150 | -.00980 | -.01300 |
| | GRADIENT | .00707 | -.00016 | .00016 | .00000 | -.00000 | .00330 | .00194 | -.00221 | -.00194 | .00221 |
| RUN NO. 307/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | | | |
| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-1B | ELV-OB | AIL-1B | AIL-OB |
| 1.402 | -5.071 | -.05040 | .01510 | .00440 | 16.31100 | 25.00000 | -.05020 | .02020 | .01000 | .01030 | -.00150 |
| 1.403 | -.039 | -.00630 | .00280 | -.01280 | 16.31100 | 25.00000 | .08520 | .02010 | -.01450 | .00030 | -.02590 |
| 1.400 | 2.490 | .00720 | .01260 | .00190 | 16.31100 | 25.00000 | .03410 | .01510 | .01000 | .00520 | -.00150 |
| 1.398 | 5.030 | .04360 | .01470 | .00400 | 16.31100 | 25.00000 | .03410 | .01510 | .01420 | .00520 | .00280 |
| 1.400 | 6.065 | .04690 | .01210 | .00150 | 16.31100 | 25.00000 | .03410 | .01000 | .01420 | .00010 | .00280 |
| 1.399 | 7.067 | .04400 | .01470 | .00400 | 16.32100 | 25.00000 | .04260 | .01510 | .01000 | .00520 | .00280 |
| 1.399 | 8.113 | .04870 | .01000 | -.00070 | 16.32100 | 25.00000 | .04260 | .01000 | .01000 | .00010 | -.00150 |
| 1.398 | 9.153 | .05620 | .01000 | -.00070 | 16.32100 | 25.00000 | .04260 | .01000 | .01000 | .00010 | -.00150 |
| 1.398 | 10.176 | .06290 | .01260 | .00190 | 16.32100 | 25.00000 | .03410 | .01510 | .01000 | .00520 | -.00150 |
| 1.397 | 11.212 | .06270 | .01000 | -.00070 | 16.31100 | 25.00000 | .03410 | .01000 | .01000 | .00010 | -.00150 |
| 1.396 | 12.268 | .05670 | .01000 | -.00070 | 16.31100 | 25.00000 | .03410 | .01000 | .01000 | .00010 | -.00150 |
| 1.392 | 13.306 | .04600 | .00990 | -.00570 | 16.31100 | 25.00000 | .01700 | .00990 | .01000 | -.00990 | -.00150 |
| 1.387 | 15.338 | .05290 | .00750 | -.00320 | 16.30100 | 25.00000 | .00000 | .00500 | .01000 | -.00500 | -.00150 |
| | GRADIENT | .00534 | .00388 | .00581 | .00000 | -.00000 | -.02021 | -.00198 | .00969 | .00194 | .00965 |

OAI45 TABULATED FORCE DATA

AMES 118-1-11 OAI45A 01

DATE 10 MAR 80

(C2F059) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = 22.500
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 299/ 0 RN/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|--------|---------|----------|----------|---------|--------|--------|---------|---------|
| .598 | -5.030 | -.03960 | .01460 | -.00100 | 22.51500 | 25.00000 | -.05860 | .01500 | .01420 | -.00480 | .00280 |
| .598 | -.067 | -.00300 | .01460 | -.00100 | 22.51500 | 25.00000 | -.07530 | .01500 | .01420 | -.00480 | .00280 |
| .597 | 2.488 | .00910 | .01460 | -.00100 | 22.51500 | 25.00000 | -.05020 | .01500 | .01420 | -.00480 | .00280 |
| .595 | 4.989 | .04170 | .01460 | -.00100 | 22.51500 | 25.00000 | -.05020 | .01500 | .01420 | -.00480 | .00280 |
| .597 | 5.997 | .05030 | .01460 | -.00100 | 22.51500 | 25.00000 | -.04180 | .01500 | .01420 | -.00480 | .00280 |
| .597 | 7.038 | .05470 | .01460 | -.00100 | 22.51500 | 25.00000 | -.04180 | .01500 | .01420 | -.00480 | .00280 |
| .598 | 8.067 | .06030 | .00960 | -.00030 | 22.51500 | 25.00000 | -.05020 | .01500 | .01000 | -.00480 | .00430 |
| .598 | 9.073 | .06690 | .00990 | -.00570 | 22.51500 | 25.00000 | -.05860 | .01500 | .01000 | -.00480 | -.00150 |
| .597 | 10.111 | .07550 | .01250 | -.00310 | 22.51500 | 25.00000 | -.03350 | .01500 | .01420 | -.00990 | .00280 |
| .597 | 11.121 | .08190 | .01210 | -.00360 | 22.52500 | 25.00000 | -.03350 | .00500 | .00850 | -.00500 | .00850 |
| .597 | 12.152 | .08278 | .00670 | -.00180 | 22.50500 | 25.00000 | -.05020 | .01000 | .00850 | -.00010 | .00850 |
| .597 | 13.162 | .08560 | .00930 | .00430 | 22.50500 | 25.00000 | -.02510 | .00990 | .00850 | -.00990 | .00850 |
| .597 | 15.210 | .10620 | .00920 | -.00070 | 22.50500 | 25.00000 | .00498 | .00000 | .00000 | .00000 | .00000 |
| .597 | GRADIENT | .00883 | .00000 | .00000 | -.00000 | .00000 | | | | | |

RUN NO. 293/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|--------|---------|----------|----------|---------|---------|--------|---------|--------|
| .799 | -5.060 | -.03870 | .01040 | -.00530 | 22.51500 | 25.00000 | -.02510 | .01500 | .00570 | -.00480 | .00570 |
| .801 | -.065 | .00020 | .01040 | -.00530 | 22.51500 | 25.00000 | -.05020 | .01500 | .00570 | -.00480 | .00570 |
| .799 | 2.448 | .01220 | .01040 | -.00530 | 22.51500 | 25.00000 | -.05020 | .01500 | .00570 | -.00480 | .00570 |
| .796 | 4.974 | .05020 | .01040 | -.00530 | 22.51500 | 25.00000 | -.04180 | .01500 | .00570 | -.00480 | .00570 |
| .798 | 6.014 | .05310 | .01040 | -.00530 | 22.51500 | 25.00000 | -.05020 | .01500 | .01000 | -.00480 | .00150 |
| .800 | 7.023 | .05690 | .01250 | -.00310 | 22.51500 | 25.00000 | -.05020 | .01500 | .00570 | -.00480 | .00570 |
| .799 | 8.078 | .06200 | .01040 | -.00530 | 22.51500 | 25.00000 | -.04180 | .01500 | .00570 | -.00480 | .00570 |
| .800 | 9.113 | .06820 | .01040 | -.00530 | 22.51500 | 25.00000 | -.03350 | .01500 | .00570 | -.00480 | .00570 |
| .797 | 10.111 | .07550 | .01040 | -.00530 | 22.51500 | 25.00000 | -.03350 | .01500 | .01000 | -.00480 | .00150 |
| .797 | 11.158 | .08010 | .01250 | -.00310 | 22.51500 | 25.00000 | -.04180 | .01500 | .00570 | -.00480 | .00570 |
| .797 | 12.158 | .08380 | .01040 | -.00530 | 22.51500 | 25.00000 | -.03350 | .01500 | .00570 | -.00480 | .00570 |
| .798 | 13.200 | .08660 | .00780 | -.00780 | 22.50500 | 25.00000 | -.04180 | .00990 | .00570 | -.00990 | .00570 |
| .800 | 15.245 | .10060 | .01000 | -.00070 | 22.50500 | 25.00000 | -.03350 | .01000 | .01000 | -.00010 | .00150 |
| .800 | GRADIENT | .00993 | .00000 | .00000 | -.00000 | .00000 | .00167 | -.00000 | .00000 | .00000 | .00000 |

DATE 10 MAR 80

OAI145 TABULATED FORCE DATA

AMES 118-1-11 OAI145A 01

(C2F058) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

BETA = .000
 AILRON = .000
 SPOBRK = 25.000
 RN/L = 5.000
 ELEVON = .000
 BDFLAP = 22.500
 RUDDER = .000

PARAMETRIC DATA

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 290/ 0

RN/L = 4.95

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|---------|----------|----------|---------|--------|--------|---------|
| .901 | -5.069 | -0.4410 | .01580 | -.00560 | 22.53600 | 25.00000 | -.02510 | .01150 | .00030 | -.01150 |
| .900 | -.082 | .00070 | .01580 | -.00560 | 22.53600 | 25.00000 | -.02510 | .01150 | .00030 | -.01150 |
| .898 | 2.489 | .01230 | .01330 | -.00310 | 22.53600 | 25.00000 | -.05020 | .01150 | .00520 | -.01150 |
| .901 | 5.002 | .04780 | .01580 | -.00560 | 22.53600 | 25.00000 | -.05020 | .01150 | .00030 | -.01150 |
| .897 | 6.008 | .05190 | .01580 | -.00560 | 22.53600 | 25.00000 | -.04180 | .01150 | .00030 | -.01150 |
| .900 | 7.057 | .05580 | .01580 | -.00560 | 22.53600 | 25.00000 | -.05020 | .01150 | .00030 | -.01150 |
| .898 | 8.069 | .06060 | .01830 | -.00810 | 22.53600 | 25.00000 | -.05020 | .01150 | .00030 | -.01150 |
| .898 | 9.138 | .07150 | .01580 | -.00560 | 22.53600 | 25.00000 | -.03350 | .01150 | .00480 | -.00570 |
| .897 | 10.130 | .07090 | .01040 | -.00530 | 22.53600 | 25.00000 | -.02510 | .01150 | .00480 | -.01150 |
| .896 | 11.160 | .07520 | .01320 | -.00810 | 22.53600 | 25.00000 | -.01670 | .01150 | .00480 | -.01150 |
| .899 | 12.185 | .07310 | .01320 | -.00810 | 22.53600 | 25.00000 | -.04180 | .01720 | .00480 | -.01720 |
| .897 | 13.204 | .07520 | .01610 | -.01100 | 22.53600 | 25.00000 | .00000 | .01150 | .00480 | -.01150 |
| .900 | 15.284 | .09040 | .01320 | -.00810 | 22.52500 | 25.00000 | .00000 | .00000 | .00480 | -.01150 |
| .901 | GRADIENT | .00451 | -.00097 | .00097 | -.00000 | -.00000 | -.00976 | .00000 | .00191 | .00000 |

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 285/ 0

RN/L = 4.94

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|--------|---------|----------|----------|---------|--------|--------|---------|
| .951 | -5.062 | -0.4310 | .01290 | -.00270 | 22.50500 | 25.00000 | .02560 | .00570 | .00030 | -.00570 |
| .953 | -.046 | .00140 | .01580 | -.00560 | 22.50500 | 25.00000 | .03410 | .01150 | .00030 | -.01150 |
| .950 | 2.487 | .01060 | .01580 | -.00560 | 22.50500 | 25.00000 | -.00840 | .01150 | .00030 | -.01150 |
| .953 | 5.047 | .04810 | .02290 | -.00340 | 22.50500 | 25.00000 | -.03350 | .01570 | .00040 | -.00720 |
| .952 | 6.020 | .05090 | .01550 | -.00020 | 22.50500 | 25.00000 | .00000 | .00570 | .00540 | -.00570 |
| .948 | 7.062 | .05420 | .01550 | -.00020 | 22.50500 | 25.00000 | .00000 | .00570 | .00540 | -.00570 |
| .954 | 8.076 | .05870 | .01550 | -.00020 | 22.51500 | 25.00000 | .00000 | .00570 | .00540 | -.00570 |
| .954 | 10.179 | .06790 | .01820 | -.00890 | 22.50500 | 25.00000 | .00000 | .02150 | .00480 | -.01300 |
| .950 | 11.198 | .08200 | .01610 | -.01100 | 22.50500 | 25.00000 | -.05860 | .01720 | .00480 | -.01720 |
| .950 | 12.210 | .07030 | .01320 | -.00810 | 22.50500 | 25.00000 | -.01670 | .01150 | .00480 | -.01150 |
| .952 | 13.225 | .07260 | .01820 | -.00890 | 22.50500 | 25.00000 | -.05020 | .02150 | .00480 | -.01300 |
| .951 | 15.298 | .08250 | .01320 | -.00810 | 22.50500 | 25.00000 | -.08370 | .01150 | .00480 | -.01150 |
| | GRADIENT | .00474 | .00000 | .00000 | .00000 | .00000 | -.01678 | .00000 | .00000 | -.00000 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

AMES 118-1-11 OAI45A 01

(C2F059) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

BETA =
 AILRON =
 SPDBRK =
 RN/L =

ELEVON = .000
 BDFLAP = 22.500
 RUDDER = .000

PARAMETRIC DATA

RUN NO. 317/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-1B | AIL-08 |
|-------|----------|---------|--------|---------|----------|----------|---------|--------|--------|--------|
| 1.103 | -5.140 | -.05200 | .01930 | .00370 | 22.44500 | 25.00000 | -.08370 | .01850 | .00030 | .00700 |
| 1.107 | -.050 | -.00450 | .01930 | .00370 | 22.45500 | 25.00000 | -.08370 | .01850 | .00030 | .00700 |
| 1.094 | 2.518 | .00720 | .01930 | .00370 | 22.45500 | 25.00000 | -.08370 | .01850 | .00030 | .00700 |
| 1.095 | 5.049 | .04670 | .01930 | .00370 | 22.45500 | 25.00000 | -.08370 | .01850 | .00030 | .00700 |
| 1.098 | 6.069 | .04770 | .01720 | .00150 | 22.45500 | 25.00000 | -.07530 | .01420 | .00030 | .00280 |
| 1.098 | 7.146 | .05130 | .01930 | .00370 | 22.45500 | 25.00000 | -.08370 | .01420 | .00030 | .00700 |
| 1.097 | 8.122 | .05400 | .01720 | .00150 | 22.45500 | 25.00000 | -.09200 | .01850 | .00480 | .00700 |
| 1.097 | 9.137 | .05750 | .01670 | .00110 | 22.45500 | 25.00000 | -.09200 | .01850 | .00480 | .00700 |
| 1.095 | 10.242 | .06320 | .01670 | .00180 | 22.45500 | 25.00000 | -.10040 | .01850 | .00480 | .00700 |
| 1.096 | 11.215 | .07360 | .01670 | .00110 | 22.45500 | 25.00000 | -.10040 | .01850 | .00480 | .00700 |
| 1.097 | 12.268 | .05860 | .01390 | .00400 | 22.44500 | 25.00000 | -.10040 | .01280 | .00480 | .01280 |
| 1.098 | 13.284 | .05000 | .01390 | .00400 | 22.44500 | 25.00000 | -.10040 | .01000 | .00480 | .00150 |
| 1.092 | 15.358 | .05140 | .01250 | -.00310 | 22.44500 | 25.00000 | -.10040 | .00000 | .00000 | .00000 |
| | GRADIENT | .00456 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 |

RUN NO. 311/ 0 RN/L = 5.06 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-1B | AIL-08 |
|-------|----------|---------|--------|---------|----------|----------|--------|--------|--------|--------|
| 1.202 | -5.109 | -.04440 | .02260 | .00040 | 22.42400 | 25.00000 | .07670 | .03000 | .00520 | .00450 |
| 1.207 | -.018 | .00210 | .01820 | -.00890 | 22.42400 | 25.00000 | .07670 | .02150 | .00480 | .01300 |
| 1.199 | 2.494 | .01930 | .01820 | -.00890 | 22.43400 | 25.00000 | .07670 | .01570 | .00480 | .00720 |
| 1.195 | 5.038 | .04990 | .01540 | -.00600 | 22.43400 | 25.00000 | .07670 | .02150 | .00480 | .01300 |
| 1.197 | 6.068 | .05040 | .01820 | -.00600 | 22.42400 | 25.00000 | .08520 | .01570 | .00480 | .00720 |
| 1.201 | 7.101 | .05440 | .01540 | -.00600 | 22.42400 | 25.00000 | .08520 | .02570 | .00480 | .00870 |
| 1.199 | 8.155 | .05570 | .02040 | -.00680 | 22.42400 | 25.00000 | .08520 | .02570 | .00480 | .00870 |
| 1.197 | 9.187 | .06390 | .02040 | -.00680 | 22.42400 | 25.00000 | .08520 | .02570 | .00480 | .00870 |
| 1.198 | 10.198 | .07520 | .02040 | -.00680 | 22.42400 | 25.00000 | .08520 | .02570 | .00480 | .00870 |
| 1.200 | 11.226 | .07000 | .02040 | -.00680 | 22.42400 | 25.00000 | .08520 | .02570 | .00480 | .00870 |
| 1.197 | 12.301 | .05990 | .02040 | -.00600 | 22.42400 | 25.00000 | .08520 | .01570 | .00480 | .00720 |
| 1.197 | 13.302 | .05360 | .01540 | -.00600 | 22.42400 | 25.00000 | .08520 | .02000 | .00990 | .00300 |
| 1.196 | 15.433 | .05650 | .01490 | -.00640 | 22.42400 | 25.00000 | .08520 | .00000 | .00000 | .00000 |
| 1.194 | GRADIENT | .00685 | .00000 | .00000 | .00398 | .00000 | .00000 | .00000 | .00000 | .00000 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

(C2F059) (16 JUL 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = 22.500
 SPOBRK = 25.000
 RN/L = 5.000 RUDDER = .000

RUN NO. 308/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|---------|--------|---------|----------|----------|--------|--------|--------|---------|---------|
| 1.298 | -5.083 | -.04570 | .02330 | -.00880 | 22.38400 | 25.00000 | .04260 | .02500 | .02150 | -.00470 | -.01300 |
| 1.305 | -.037 | .00170 | .01350 | -.01850 | 22.37400 | 25.00000 | .04260 | .02000 | .00710 | -.00980 | -.02730 |
| 1.297 | 2.522 | .01750 | .01860 | -.01350 | 22.37400 | 25.00000 | .05110 | .02000 | .01720 | -.00980 | -.01720 |
| 1.293 | 5.089 | .04980 | .01860 | -.01350 | 22.37400 | 25.00000 | .04260 | .02000 | .01720 | -.00980 | -.01720 |
| 1.294 | 6.101 | .04870 | .01860 | -.01350 | 22.37400 | 25.00000 | .05110 | .02000 | .01720 | -.00980 | -.01720 |
| 1.294 | 7.159 | .05520 | .01860 | -.01350 | 22.37400 | 25.00000 | .05110 | .02000 | .01720 | -.00980 | -.01720 |
| 1.295 | 8.166 | .05710 | .01610 | -.01100 | 22.37400 | 25.00000 | .05110 | .02000 | .01720 | -.00980 | -.01720 |
| 1.294 | 9.186 | .06200 | .01860 | -.01350 | 22.37400 | 25.00000 | .05110 | .02000 | .01720 | -.00980 | -.01720 |
| 1.294 | 10.218 | .06920 | .01860 | -.01350 | 22.37400 | 25.00000 | .05110 | .02000 | .02300 | -.00480 | -.02300 |
| 1.293 | 11.275 | .06760 | .01900 | -.01390 | 22.37400 | 25.00000 | .04260 | .02000 | .02300 | -.00980 | -.02300 |
| 1.293 | 12.316 | .06400 | .02150 | -.01640 | 22.37400 | 25.00000 | .04260 | .02000 | .01720 | -.00980 | -.01720 |
| 1.293 | 13.324 | .05530 | .01860 | -.01350 | 22.37400 | 25.00000 | .04260 | .02000 | .02300 | -.00980 | -.02300 |
| 1.291 | 15.371 | .07480 | .02150 | -.01640 | 22.36400 | 25.00000 | .04260 | .02000 | .00395 | -.00000 | -.00395 |
| | GRADIENT | .00618 | .00199 | .00195 | .00000 | .00000 | .00332 | .00000 | | | |

RUN NO. 303/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|---------|--------|---------|----------|----------|--------|--------|--------|---------|---------|
| 1.404 | -5.086 | -.02850 | .01470 | .00400 | 22.36400 | 25.00000 | .00000 | .01510 | .01420 | .00520 | .00280 |
| 1.409 | -.045 | -.00580 | .01000 | -.00070 | 22.36400 | 25.00000 | .00000 | .01000 | .01000 | .00010 | -.00150 |
| 1.405 | 2.526 | .01230 | .01000 | -.00070 | 22.36400 | 25.00000 | .00000 | .01000 | .01000 | .00010 | -.00150 |
| 1.400 | 5.035 | .04270 | .01000 | -.00070 | 22.35300 | 25.00000 | .00000 | .01000 | .01000 | .00010 | -.00150 |
| 1.400 | 6.054 | .04420 | .01000 | -.00070 | 22.35300 | 25.00000 | .00000 | .01000 | .01000 | .00010 | -.00150 |
| 1.400 | 7.076 | .04570 | .00750 | -.00320 | 22.35300 | 25.00000 | .00000 | .00500 | .01000 | -.00500 | -.00150 |
| 1.400 | 8.114 | .04880 | .00750 | -.00320 | 22.35300 | 25.00000 | .00000 | .00500 | .01000 | -.00500 | -.00150 |
| 1.399 | 9.154 | .05550 | .00530 | -.00530 | 22.35300 | 25.00000 | .00000 | .00500 | .00570 | -.00500 | -.00570 |
| 1.398 | 10.154 | .06610 | .00530 | -.00530 | 22.35300 | 25.00000 | .00000 | .00500 | .01000 | -.00500 | -.00150 |
| 1.397 | 11.202 | .06410 | .00750 | -.00320 | 22.35300 | 25.00000 | .00000 | .00500 | .01000 | -.00500 | -.00150 |
| 1.393 | 12.303 | .05700 | .00750 | -.00320 | 22.35300 | 25.00000 | .00000 | .00500 | .01000 | -.00500 | -.00150 |
| 1.392 | 13.296 | .05950 | .00750 | -.00320 | 22.34300 | 25.00000 | .00000 | .00500 | .00570 | -.00500 | -.00150 |
| 1.386 | 15.336 | .06380 | .00530 | -.00530 | 22.34300 | 25.00000 | .00000 | .00500 | .00570 | -.00500 | -.00150 |
| | GRADIENT | .00704 | .00000 | .00000 | -.00000 | .00000 | .00000 | .00000 | | | |

OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

DATE 10 MAR 80

(C2F060) (16 JUL 77)

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELEVON = .000 AILRON = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

| MACH | BOFLAP | ALPHA | BETA | ELEVON | AILRON | SPDBRK | RUDDER | GRADIENT INTERVAL = -5.00/ 5.00 | | | |
|------|----------|---------|--------|--------|---------|----------|---------|---------------------------------|---------|---------|---------|
| | | | | | | | | ELV-OB | AIL-OB | ELV-IB | AIL-IB |
| .598 | -11.642 | 4.99850 | .03720 | .01180 | .00180 | 25.00000 | .17040 | .00850 | .00480 | .00850 | .00850 |
| .599 | -7.950 | 5.00330 | .03730 | .01180 | .00180 | 25.00000 | -.01670 | .00850 | -.00480 | .00850 | .00850 |
| .599 | -5.940 | 5.00550 | .03690 | .01460 | -.00100 | 25.00000 | -.00840 | .00850 | -.00480 | .00850 | .00850 |
| .599 | -3.931 | 5.00860 | .03700 | .01180 | .00180 | 25.00000 | -.00840 | .00850 | -.00480 | .00850 | .00850 |
| .599 | -1.950 | 5.01210 | .03710 | .01180 | .00180 | 25.00000 | -.01670 | .00850 | -.00480 | .00850 | .00850 |
| .599 | .020 | 5.01520 | .03690 | .01180 | .00180 | 25.00000 | -.00840 | .00850 | -.00480 | .00850 | .00850 |
| .599 | 1.990 | 5.01920 | .03710 | .01180 | .00180 | 25.00000 | -.01670 | .00850 | -.00480 | .00850 | .00850 |
| .599 | 4.020 | 5.02240 | .03710 | .01180 | .00180 | 25.00000 | -.00840 | .00850 | -.00480 | .00850 | .00850 |
| .599 | 5.980 | 5.02690 | .03690 | .00920 | -.00070 | 25.00000 | -.02510 | .00850 | -.00990 | .00850 | .00850 |
| .599 | 7.970 | 5.03100 | .03690 | .00920 | -.00070 | 25.00000 | -.01670 | .00850 | -.00990 | .00850 | .00850 |
| .599 | 12.030 | 5.04000 | .03670 | .00920 | -.00070 | 25.00000 | -.00000 | .00850 | -.00990 | .00850 | .00850 |
| .598 | 16.311 | 5.05040 | .03650 | .00920 | -.00070 | 25.00000 | -.01670 | .00850 | -.00990 | .00850 | .00850 |
| .598 | 22.505 | 5.06870 | .03650 | .00920 | -.00070 | 25.00000 | -.01670 | .00850 | -.00990 | .00850 | .00850 |
| .598 | GRADIENT | .00175 | .00001 | .00000 | -.00000 | -.00000 | -.00084 | -.00000 | -.00000 | -.00000 | -.00000 |

GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BOFLAP | ALPHA | BETA | ELEVON | AILRON | SPDBRK | RUDDER | GRADIENT INTERVAL = -5.00/ 5.00 | | | |
|------|----------|---------|---------|---------|---------|----------|---------|---------------------------------|--------|--------|--------|
| | | | | | | | | ELV-OB | AIL-OB | ELV-IB | AIL-IB |
| .800 | -11.662 | 4.98490 | .04000 | .01290 | -.00270 | 25.00000 | -.03350 | .00570 | .00030 | .00570 | .00570 |
| .800 | -7.950 | 4.99010 | .03990 | .01290 | -.00270 | 25.00000 | -.03350 | .00570 | .00030 | .00570 | .00570 |
| .800 | -5.930 | 4.99400 | .03990 | .01290 | -.00270 | 25.00000 | -.02510 | .00570 | .00030 | .00570 | .00570 |
| .800 | -3.940 | 4.99890 | .03970 | .01290 | -.00270 | 25.00000 | -.03350 | .00570 | .00030 | .00570 | .00570 |
| .799 | -1.970 | 5.00270 | .03950 | .01540 | -.00520 | 25.00000 | -.02510 | .00570 | .00470 | .00570 | .00570 |
| .800 | .010 | 5.00670 | .03960 | .01290 | -.00270 | 25.00000 | -.03350 | .00570 | .00030 | .00570 | .00570 |
| .799 | 1.990 | 5.01230 | .03930 | .01040 | -.00020 | 25.00000 | -.02510 | .00570 | .00030 | .00570 | .00570 |
| .800 | 4.000 | 5.01700 | .03940 | .01040 | -.00020 | 25.00000 | -.01670 | .00570 | .00030 | .00570 | .00570 |
| .800 | 6.010 | 5.02250 | .03920 | .01290 | -.00270 | 25.00000 | -.00840 | .00570 | .00030 | .00570 | .00570 |
| .800 | 7.960 | 5.02700 | .03900 | .01290 | -.00270 | 25.00000 | -.00840 | .00570 | .00030 | .00570 | .00570 |
| .799 | 12.019 | 5.03950 | .03870 | .01290 | -.00270 | 25.00000 | -.00840 | .00570 | .00030 | .00570 | .00570 |
| .800 | 16.301 | 5.07540 | .03850 | .01290 | -.00270 | 25.00000 | -.01670 | .00570 | .00030 | .00570 | .00570 |
| .799 | 22.525 | 5.07540 | .03870 | .01290 | -.00270 | 25.00000 | -.01670 | .00570 | .00030 | .00570 | .00570 |
| .799 | GRADIENT | .00231 | -.00004 | -.00050 | .00050 | .00000 | .00170 | -.00000 | .00099 | .00000 | .00000 |

(CEFO80) (16 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELEVON = .000 AILRON = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 287/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BDFLAP | ALPHA | BETA | ELEVON | AILRON | SPDBRK | RUDDER | ELV-1B | ELV-OB | AIL-1B | AIL-OB |
|------|----------|---------|---------|--------|---------|----------|--------|--------|--------|---------|---------|
| .900 | -11.652 | 4.94990 | .04420 | .01870 | -.00850 | 25.00000 | .00000 | .02010 | .01720 | .00030 | .01720 |
| .901 | -7.940 | 4.95390 | .04400 | .01870 | -.00850 | 25.00000 | .00000 | .02010 | .01720 | .00030 | .01720 |
| .900 | -5.940 | 4.95610 | .04400 | .01870 | -.00850 | 25.00000 | .00000 | .02010 | .01720 | .00030 | .01720 |
| .901 | -3.940 | 4.95870 | .04410 | .01870 | -.00850 | 25.00000 | .00850 | .02010 | .01720 | .00030 | .01720 |
| .900 | -1.960 | 4.96010 | .04370 | .01610 | -.01100 | 25.00000 | .00000 | .01500 | .01720 | -.00480 | .01720 |
| .901 | .020 | 4.98240 | .04350 | .01610 | -.01100 | 25.00000 | .00000 | .01500 | .01720 | -.00480 | .01720 |
| .900 | 1.990 | 4.98330 | .04340 | .01610 | -.00850 | 25.00000 | .00850 | .02010 | .01720 | .00030 | .01720 |
| .900 | 4.000 | 4.98830 | .04320 | .01870 | -.00850 | 25.00000 | .00850 | .02010 | .01720 | .00030 | .01720 |
| .901 | 6.000 | 4.99270 | .04310 | .01870 | -.00850 | 25.00000 | .00850 | .02010 | .01720 | .00030 | .01720 |
| .900 | 7.970 | 4.99510 | .04300 | .01870 | -.00850 | 25.00000 | .00000 | .02010 | .01720 | .00030 | .01720 |
| .900 | 12.030 | 5.00280 | .04300 | .01870 | -.00850 | 25.00000 | .00000 | .01500 | .01720 | -.00480 | .01720 |
| .899 | 16.311 | 5.01360 | .04290 | .01610 | -.01100 | 25.00000 | .00000 | .02010 | .01720 | .00030 | .01720 |
| .901 | 22.505 | 5.02960 | .04290 | .01870 | -.00850 | 25.00000 | .00000 | .02010 | .01720 | .00030 | .01720 |
| | GRADIENT | .00415 | -.00011 | .00000 | .00000 | .00000 | .00085 | .00000 | .00000 | .00000 | -.00000 |

RUN NO. 286/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BDFLAP | ALPHA | BETA | ELEVON | AILRON | SPDBRK | RUDDER | ELV-1B | ELV-OB | AIL-1B | AIL-OB |
|------|----------|---------|---------|--------|---------|----------|---------|--------|--------|---------|---------|
| .951 | -11.662 | 5.00910 | .04330 | .02290 | -.00420 | 25.00000 | -.04180 | .02010 | .02570 | .00030 | -.00870 |
| .952 | -7.940 | 5.01140 | .04340 | .02290 | -.00420 | 25.00000 | -.05860 | .02010 | .02570 | .00030 | -.00870 |
| .953 | -5.930 | 5.01360 | .04340 | .02290 | -.00420 | 25.00000 | -.05860 | .02010 | .02570 | .00030 | -.00870 |
| .950 | -3.950 | 5.02470 | .04270 | .02290 | -.00420 | 25.00000 | -.05020 | .02010 | .02570 | .00030 | -.00870 |
| .951 | -1.970 | 5.02810 | .04290 | .02290 | -.00420 | 25.00000 | -.05860 | .02010 | .02570 | .00030 | -.00870 |
| .951 | .030 | 5.02960 | .04260 | .02290 | -.00420 | 25.00000 | -.05020 | .02010 | .02570 | .00030 | -.00870 |
| .950 | 1.980 | 5.02980 | .04280 | .02580 | -.00710 | 25.00000 | .17900 | .02010 | .03150 | .00030 | -.01450 |
| .951 | 4.000 | 5.03520 | .04230 | .02580 | -.00710 | 25.00000 | .20450 | .02010 | .03150 | .00030 | -.01450 |
| .951 | 5.990 | 5.03880 | .04250 | .02330 | -.00460 | 25.00000 | .02560 | .01510 | .03150 | .00520 | -.01450 |
| .950 | 7.960 | 5.04040 | .04260 | .02330 | -.00460 | 25.00000 | .02560 | .02010 | .03150 | .00030 | -.01450 |
| .949 | 12.030 | 5.04570 | .04240 | .02580 | -.00710 | 25.00000 | .01700 | .02010 | .03150 | .00030 | -.01450 |
| .950 | 16.321 | 5.05390 | .04280 | .02320 | -.00960 | 25.00000 | .01700 | .01500 | .03150 | -.00480 | -.01450 |
| .950 | 22.505 | 5.06040 | .04330 | .02580 | -.00710 | 25.00000 | .02560 | .02010 | .03150 | .00030 | -.01450 |
| | GRADIENT | .00115 | -.00005 | .00044 | -.00044 | .00000 | .03757 | .00000 | .00087 | .00000 | -.00087 |

DA145 TABULATED FORCE DATA

DATE 10 MAR 80

(C2F050) (16 JUL 77)

AMES 118-1-11 OA145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELEVON = .000 AILRON = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 318/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BOFLAP | ALPHA | BETA | ELEVON | AILRON | SPDBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|---------|--------|--------|---------|----------|---------|--------|--------|---------|--------|
| 1.101 | -11.662 | 5.03720 | .04240 | .01930 | .00370 | 25.00000 | -.07530 | .02010 | .01850 | .00030 | .00700 |
| 1.101 | -7.950 | 5.03940 | .04260 | .01930 | .00370 | 25.00000 | -.07530 | .02010 | .01850 | .00030 | .00700 |
| 1.101 | -5.920 | 5.04120 | .04220 | .01930 | .00370 | 25.00000 | -.07530 | .02010 | .01850 | .00030 | .00700 |
| 1.101 | -3.931 | 5.04300 | .04250 | .01930 | .00370 | 25.00000 | -.07530 | .02010 | .01850 | .00030 | .00700 |
| 1.102 | -1.950 | 5.04540 | .04230 | .01930 | .00370 | 25.00000 | -.07530 | .02010 | .01850 | .00030 | .00700 |
| 1.100 | .010 | 5.04800 | .04220 | .01930 | .00370 | 25.00000 | -.07530 | .02010 | .01850 | .00030 | .00700 |
| 1.100 | 1.990 | 5.05050 | .04240 | .01930 | .00370 | 25.00000 | -.07530 | .02010 | .01850 | .00030 | .00700 |
| 1.101 | 3.990 | 5.05230 | .04250 | .01930 | .00370 | 25.00000 | -.06690 | .02010 | .01850 | .00030 | .00700 |
| 1.100 | 6.020 | 5.05520 | .04230 | .01930 | .00370 | 25.00000 | -.06690 | .02010 | .01850 | .00030 | .00700 |
| 1.100 | 7.960 | 5.05820 | .04250 | .01930 | .00370 | 25.00000 | -.06690 | .02010 | .01850 | .00030 | .00700 |
| 1.099 | 12.040 | 5.06480 | .04240 | .01930 | .00370 | 25.00000 | -.06690 | .02010 | .01850 | .00030 | .00700 |
| 1.101 | 16.321 | 5.07200 | .04260 | .01930 | .00370 | 25.00000 | -.06690 | .02010 | .01850 | .00030 | .00700 |
| 1.101 | 22.394 | 5.08210 | .04220 | .01670 | .00110 | 25.00000 | -.07530 | .01500 | .01850 | -.00480 | .00700 |
| 1.098 | GRADIENT | 00120 | .00001 | .00000 | -.00000 | -.00000 | .00000 | .00000 | .00000 | -.00000 | .00000 |

RUN NO. 310/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BOFLAP | ALPHA | BETA | ELEVON | AILRON | SPDBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|---------|--------|--------|---------|----------|---------|--------|---------|---------|---------|
| 1.202 | -11.662 | 5.08740 | .04440 | .02320 | -.00980 | 25.00000 | .06820 | .01900 | .03100 | .00480 | -.01450 |
| 1.201 | -7.950 | 5.09190 | .04450 | .02040 | -.00680 | 25.00000 | .06820 | .01500 | .02570 | -.00480 | -.00870 |
| 1.202 | -5.940 | 5.09330 | .04470 | .02040 | -.00680 | 25.00000 | .06820 | .01500 | .02570 | -.00480 | -.00870 |
| 1.201 | -3.950 | 5.09610 | .04480 | .02040 | -.00680 | 25.00000 | .07670 | .01500 | .02570 | -.00480 | -.00870 |
| 1.201 | -1.950 | 5.09840 | .04460 | .02040 | -.00680 | 25.00000 | .07670 | .01500 | .02570 | -.00480 | -.00870 |
| 1.199 | .010 | 5.10190 | .04480 | .02040 | -.00680 | 25.00000 | .07670 | .01500 | .02150 | .00030 | -.01300 |
| 1.201 | 1.990 | 5.10210 | .04490 | .02080 | -.00630 | 25.00000 | .07670 | .02010 | .02150 | .00030 | -.01300 |
| 1.201 | 4.010 | 5.10360 | .04500 | .02080 | -.00630 | 25.00000 | .07670 | .02010 | .02150 | .00030 | -.01300 |
| 1.201 | 6.020 | 5.10630 | .04480 | .02080 | -.00630 | 25.00000 | .07670 | .01500 | .02150 | -.00480 | -.01300 |
| 1.202 | 7.980 | 5.10790 | .04500 | .01820 | -.00890 | 25.00000 | .07670 | .01500 | .02000 | -.00480 | -.00300 |
| 1.199 | 12.030 | 5.11700 | .04540 | .01750 | -.00390 | 25.00000 | .07670 | .01500 | .02570 | .00030 | -.00870 |
| 1.201 | 16.321 | 5.12070 | .04550 | .02290 | -.00420 | 25.00000 | .07670 | .01500 | .02570 | -.00480 | -.00870 |
| 1.201 | 22.374 | 5.13080 | .04560 | .02040 | -.00580 | 25.00000 | .07670 | .01500 | .02570 | -.00480 | -.00870 |
| 1.200 | GRADIENT | 00094 | .00004 | .00006 | .00008 | .00000 | -.00000 | .00077 | -.00063 | .00077 | -.00065 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1055

AMES 118-1-11 OAI45A 01

(C2F080, (18 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

YMRP = 1076.6800 IN. XO
 ZMRP = .0000 IN. YO
 = 375.0000 IN. ZO

ALPHA =
 ELEVON =
 SPOBRK =
 RU/L =

BETA =
 AILRON =
 RUDDER =

5.000
 .000
 25.000
 5.000

.000

.000

.000

RUN NO. 309/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BOFLAP | ALPHA | BETA | ELEVON | AILRON | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|---------|--------|---------|---------|----------|--------|--------|---------|---------|---------|
| 1.298 | -11.652 | 5.04790 | .04380 | .02150 | -.01640 | 25.00000 | .05110 | .02000 | .02300 | -.00980 | -.02300 |
| 1.298 | -7.950 | 5.05060 | .04360 | .03010 | -.02500 | 25.00000 | .05110 | .02000 | .04020 | -.00980 | -.04020 |
| 1.297 | -5.920 | 5.05230 | .04380 | .03010 | -.02500 | 25.00000 | .05970 | .02000 | .04020 | -.00980 | -.04020 |
| 1.297 | -3.940 | 5.05200 | .04390 | .03010 | -.02500 | 25.00000 | .05110 | .02000 | .04020 | -.00980 | -.04020 |
| 1.297 | -1.940 | 5.05270 | .04420 | .03010 | -.02500 | 25.00000 | .05970 | .02000 | .04020 | -.00980 | -.04020 |
| 1.297 | .010 | 5.05470 | .04410 | .02720 | -.02210 | 25.00000 | .05970 | .02000 | .03450 | -.00980 | -.03450 |
| 1.298 | 1.990 | 5.05610 | .04410 | .02720 | -.02210 | 25.00000 | .05970 | .02000 | .03450 | -.00980 | -.03450 |
| 1.297 | 4.010 | 5.05920 | .04420 | .02150 | -.01640 | 25.00000 | .05970 | .02000 | .02300 | -.00980 | -.02300 |
| 1.297 | 5.980 | 5.06080 | .04430 | .02150 | -.01640 | 25.00000 | .05970 | .02000 | .02300 | -.00980 | -.02300 |
| 1.298 | 7.970 | 5.06290 | .04420 | .02150 | -.01640 | 25.00000 | .05970 | .02000 | .02300 | -.00980 | -.02300 |
| 1.297 | 12.030 | 5.06730 | .04440 | .02150 | -.01640 | 25.00000 | .05970 | .02000 | .02300 | -.00980 | -.02300 |
| 1.298 | 16.311 | 5.07200 | .04430 | .02150 | -.01640 | 25.00000 | .05970 | .02000 | .02300 | -.00980 | -.02300 |
| 1.297 | 22.364 | 5.08040 | .04430 | .01890 | -.01890 | 25.00000 | .05970 | .02000 | .01790 | -.00980 | -.02800 |
| 1.297 | GRADIENT | .00090 | .00003 | -.00044 | .00044 | .00000 | .00043 | .00000 | -.00086 | -.00000 | .00086 |

RUN NO. 304/ 0

RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BOFLAP | ALPHA | BETA | ELEVON | AILRON | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|---------|--------|--------|---------|----------|--------|--------|--------|---------|---------|
| 1.405 | -11.672 | 5.01570 | .03840 | .01250 | -.00310 | 25.00000 | .00000 | .01500 | .01000 | -.00480 | -.00150 |
| 1.404 | -7.940 | 5.01980 | .03830 | .01250 | -.00310 | 25.00000 | .00000 | .01500 | .01000 | -.00480 | -.00150 |
| 1.404 | -5.940 | 5.02250 | .03830 | .01250 | -.00310 | 25.00000 | .00840 | .01000 | .01000 | .00010 | -.00150 |
| 1.404 | -3.921 | 5.03050 | .03810 | .01000 | -.00070 | 25.00000 | .00000 | .01000 | .01000 | .00010 | -.00150 |
| 1.403 | -1.950 | 5.03400 | .03760 | .01000 | -.00070 | 25.00000 | .00000 | .01000 | .01000 | .00010 | -.00150 |
| 1.404 | .020 | 5.03730 | .03780 | .01000 | -.00070 | 25.00000 | .00840 | .01000 | .01000 | .00010 | -.00150 |
| 1.404 | 1.990 | 5.03720 | .03800 | .01000 | -.00070 | 25.00000 | .00000 | .01000 | .01000 | .00010 | -.00150 |
| 1.403 | 4.000 | 5.04010 | .03810 | .01000 | -.00070 | 25.00000 | .00000 | .01000 | .01000 | .00010 | -.00150 |
| 1.403 | 5.990 | 5.04180 | .03800 | .01000 | -.00070 | 25.00000 | .00000 | .01000 | .01000 | .00010 | -.00150 |
| 1.404 | 7.950 | 5.04310 | .03770 | .00750 | -.00320 | 25.00000 | .00000 | .00500 | .01000 | -.00500 | -.00150 |
| 1.403 | 12.040 | 5.05010 | .03790 | .00530 | -.00530 | 25.00000 | .00840 | .00500 | .00570 | -.00500 | -.00570 |
| 1.403 | 16.311 | 5.05490 | .03770 | .00780 | -.00780 | 25.00000 | .00000 | .00900 | .00570 | -.00900 | -.00570 |
| 1.403 | 22.313 | 5.06130 | .03760 | .00530 | -.00530 | 25.00000 | .00000 | .00500 | .00570 | -.00500 | -.00570 |
| 1.403 | GRADIENT | .00113 | .00002 | .00000 | -.00000 | .00000 | .00043 | .00000 | .00000 | .00000 | .00000 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(CEF061) (16 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 BETA = .000
 ELEVON = .000 AILRON = .000
 BOFLAP = .000 SPDBRK = .000
 RN/L = 5.000

RUN NO. 329/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|--------|---------|---------|----------|---------|--------|---------|
| .598 | -15.355 | -.02440 | .01200 | .01580 | -.00560 | .01000 | 25.00000 | .01150 | .00030 | -.01150 |
| .598 | -10.291 | -.02430 | .00760 | .01580 | -.00560 | .03000 | 25.00000 | .01150 | .00030 | -.01150 |
| .598 | -5.093 | -.02460 | .00390 | .01580 | -.00560 | .02000 | 25.00000 | .01150 | .00030 | -.01150 |
| .598 | -2.513 | -.02510 | .00260 | .01580 | -.00560 | .02000 | 25.00000 | .01150 | .00030 | -.01150 |
| .598 | -.033 | -.02590 | .00080 | .01580 | -.00560 | .01000 | 25.00000 | .01150 | .00030 | -.01150 |
| .598 | 2.541 | -.02630 | -.00080 | .01580 | -.00560 | .01000 | 25.00000 | .01150 | .00030 | -.01150 |
| .598 | 4.864 | -.02770 | -.00210 | .01580 | -.00560 | .01000 | 25.00000 | .01150 | .00030 | -.01150 |
| .598 | 9.576 | -.02930 | -.00620 | .01580 | -.00560 | .01000 | 25.00000 | .01150 | .00030 | -.01150 |
| .598 | 14.614 | -.02990 | -.01160 | .01580 | -.00560 | .02000 | 25.00000 | .01570 | .00030 | -.00720 |
| .598 | 18.253 | -.03000 | -.01520 | .01790 | -.00350 | .02000 | 25.00000 | .01150 | .00030 | -.01150 |
| .598 | 23.063 | -.03030 | -.01950 | .01580 | -.00560 | .02000 | 25.00000 | .01150 | .00030 | -.01150 |
| .598 | GRADIENT | -.00033 | -.00064 | .00000 | -.00000 | -.00122 | -.00000 | -.00000 | .00000 | .00000 |

RUN NO. 344/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|--------|---------|--------|----------|--------|---------|---------|
| .800 | -15.338 | -.04470 | .01260 | .02000 | -.00130 | .01000 | 25.00000 | .02000 | .00030 | -.00300 |
| .800 | -10.307 | -.04550 | .00790 | .02000 | -.00130 | .03000 | 25.00000 | .02000 | .00030 | -.00300 |
| .800 | -5.076 | -.04430 | .00330 | .01720 | -.00150 | .02000 | 25.00000 | .01420 | .00030 | -.00280 |
| .800 | -2.513 | -.04450 | .00200 | .02000 | -.00130 | .02000 | 25.00000 | .02000 | .00030 | -.00300 |
| .799 | .000 | -.04490 | .00030 | .02000 | -.00130 | .02000 | 25.00000 | .02000 | .00030 | -.00300 |
| .800 | 2.549 | -.04580 | -.00110 | .02000 | -.00130 | .02000 | 25.00000 | .02000 | .00030 | -.00300 |
| .800 | 4.856 | -.04630 | -.00310 | .02000 | -.00130 | .02000 | 25.00000 | .02000 | .00030 | -.00300 |
| .800 | 9.584 | -.04960 | -.00830 | .02000 | -.00130 | .02000 | 25.00000 | .01570 | .00030 | -.00720 |
| .800 | 14.605 | -.04960 | -.01400 | .01790 | -.00350 | .00000 | 25.00000 | .01570 | .00030 | -.00720 |
| .800 | 18.280 | -.05190 | -.01780 | .01790 | -.00350 | .00000 | 25.00000 | .01570 | .00030 | -.00720 |
| .800 | 22.963 | -.05050 | -.02120 | .01790 | -.00350 | .00000 | 25.00000 | .00000 | .00000 | .00000 |
| .800 | GRADIENT | -.00026 | -.00068 | .00000 | .00000 | .00000 | -.00000 | .00000 | -.00000 | .00000 |

OAI45 TABULATED FORCE DATA

AMES 118-1-11 OAI45A Q1

DATE 10 MAR 80

(C2F061) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = 25.000
 RN/L = 5.000

RUN NO. 390/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|--------|---------|---------|----------|--------|--------|---------|---------|
| .900 | -15.381 | .04440 | .02110 | .01580 | -.00640 | .01000 | 25.00000 | .01000 | .02150 | .00010 | -.01300 |
| .901 | -10.331 | .04380 | .01700 | .01330 | -.00390 | .01000 | 25.00000 | .00510 | .02150 | .00510 | -.01300 |
| .899 | -5.008 | .04370 | .01190 | .01320 | -.00900 | .01000 | 25.00000 | .00500 | .02150 | -.00500 | -.01300 |
| .901 | -2.504 | .04480 | .00990 | .01070 | -.00650 | .01000 | 25.00000 | .00000 | .02150 | .00000 | -.01300 |
| .900 | .043 | .04390 | .00860 | .01320 | -.00900 | .02000 | 25.00000 | .00500 | .02150 | -.00500 | -.01300 |
| .900 | 2.566 | .04310 | .00660 | .01320 | -.00900 | .01000 | 25.00000 | .00500 | .02150 | -.00500 | -.01300 |
| .900 | 4.831 | .03960 | .00450 | .01580 | -.00640 | .01000 | 25.00000 | .01000 | .02150 | .00010 | -.01300 |
| .902 | 9.576 | .03870 | -.00180 | .01580 | -.00640 | .01000 | 25.00000 | .01000 | .02150 | .00010 | -.01300 |
| .900 | 14.605 | .03610 | -.00720 | .01000 | -.00070 | .02000 | 25.00000 | .01000 | .01000 | .00010 | -.00150 |
| .901 | 18.271 | .03600 | -.01030 | .01000 | -.00070 | .02000 | 25.00000 | .01000 | .01000 | .00010 | -.00150 |
| .901 | 22.762 | .03500 | -.01390 | .01000 | -.00070 | .01000 | 25.00000 | .01000 | .01000 | .00010 | -.00150 |
| .902 | GRADIENT | -.00066 | -.00074 | .00062 | .00000 | -.00040 | .00000 | .00122 | .00000 | -.00001 | .00000 |

RUN NO. 413/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|---------|---------|---------|----------|---------|---------|---------|---------|
| .951 | -14.736 | .09820 | .01980 | -.00220 | -.00790 | .00970 | 25.00000 | .00510 | -.00940 | .00510 | -.02090 |
| .951 | -10.691 | .09520 | .01630 | -.00470 | -.01040 | .02910 | 25.00000 | .00510 | -.01450 | .00510 | -.02590 |
| .950 | -5.366 | .09210 | .01330 | -.00470 | -.01040 | .01940 | 25.00000 | .00510 | -.01450 | .00510 | -.02590 |
| .951 | -2.776 | .08990 | .01080 | -.00470 | -.01040 | .00970 | 25.00000 | .00510 | -.01450 | .00510 | -.02590 |
| .952 | -.966 | .09060 | .01010 | -.00470 | -.01040 | .02910 | 25.00000 | .00510 | -.01450 | .00510 | -.02590 |
| .950 | .123 | .09140 | .00960 | -.00470 | -.01040 | .00970 | 25.00000 | .00510 | -.01450 | .00510 | -.02590 |
| .950 | 2.333 | .09060 | .00910 | -.00470 | -.01040 | .00970 | 25.00000 | .00510 | -.01450 | .00510 | -.02590 |
| .952 | 4.811 | .08860 | .00660 | -.00470 | -.01040 | .00970 | 25.00000 | .00510 | -.01450 | .00510 | -.02590 |
| .951 | 9.684 | .08980 | .00130 | -.00470 | -.01040 | .00970 | 25.00000 | .00510 | -.01450 | .00510 | -.02590 |
| .950 | 14.538 | .09270 | -.00260 | -.00470 | -.01040 | .00970 | 25.00000 | .00510 | -.01450 | .00510 | -.02590 |
| .949 | 18.070 | .09390 | -.00500 | -.00470 | -.01040 | .00000 | 25.00000 | .00510 | -.01450 | .00510 | -.02590 |
| .950 | 22.799 | .09470 | -.00870 | -.00470 | -.01040 | .00970 | 25.00000 | .00510 | -.01450 | .00510 | -.02590 |
| .950 | GRADIENT | -.00019 | -.00052 | .00000 | .00000 | -.00090 | .00000 | -.00000 | .00000 | -.00000 | .00000 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1059

AMES 118-1-11 0A145A 01(-TO+)

(C2F062) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELEVON = .000 AILRON = .000
BDFLAP = .000 SPD8RK = 25.000
RN/L = 5.000

RUN NO. 350/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPD8RK | ELV-18 | ELV-08 | AIL-18 | AIL-08 |
|------|----------|---------|---------|--------|--------|--------|----------|--------|---------|--------|---------|
| .902 | -15.364 | 5.11380 | .07240 | .01430 | .00440 | .01000 | 25.00000 | .02010 | .00850 | .00030 | .00850 |
| .900 | -10.315 | 5.11140 | .06930 | .01640 | .00650 | .02000 | 25.00000 | .02010 | .01280 | .00030 | .01280 |
| .901 | -5.101 | 5.11010 | .06650 | .01430 | .00440 | .02000 | 25.00000 | .02010 | .00850 | .00030 | .00850 |
| .900 | -4.079 | 5.11040 | .06580 | .01430 | .00440 | .02000 | 25.00000 | .02010 | .00850 | .00030 | .00850 |
| .901 | -3.066 | 5.11150 | .06500 | .01180 | .00180 | .02000 | 25.00000 | .01500 | .00850 | .00480 | .00850 |
| .901 | -1.988 | 5.11140 | .06410 | .01390 | .00400 | .02000 | 25.00000 | .01500 | .01280 | .00480 | .01280 |
| .901 | -.945 | 5.11220 | .06250 | .01180 | .00180 | .02000 | 25.00000 | .01500 | .00850 | .00480 | .00850 |
| .902 | .128 | 5.11260 | .06100 | .01430 | .00440 | .02000 | 25.00000 | .02010 | .00850 | .00030 | .00850 |
| .901 | 1.057 | 5.11050 | .05990 | .01430 | .00440 | .02000 | 25.00000 | .02010 | .00850 | .00030 | .00850 |
| .901 | 2.073 | 5.11320 | .05850 | .01430 | .00440 | .02000 | 25.00000 | .02010 | .00850 | .00030 | .00850 |
| .902 | 2.983 | 5.11250 | .05720 | .01430 | .00440 | .02000 | 25.00000 | .02010 | .00850 | .00030 | .00850 |
| .902 | 3.929 | 5.11350 | .05630 | .01430 | .00440 | .02000 | 25.00000 | .02010 | .00850 | .00030 | .00850 |
| .901 | 4.848 | 5.11170 | .05560 | .01430 | .00440 | .02000 | 25.00000 | .02010 | .00850 | .00030 | .00850 |
| .901 | 9.584 | 5.11560 | .05200 | .01430 | .00440 | .02000 | 25.00000 | .02010 | .00850 | .00030 | .00850 |
| .900 | 14.614 | 5.11590 | .04830 | .01180 | .00690 | .02000 | 25.00000 | .01510 | .00850 | .00520 | .00850 |
| .902 | 18.271 | 5.11640 | .04590 | .01430 | .00440 | .02000 | 25.00000 | .02010 | .00850 | .00030 | .00850 |
| .901 | 22.855 | 5.11740 | .04290 | .01430 | .00440 | .01000 | 25.00000 | .02010 | .00850 | .00030 | .00850 |
| | GRADIENT | .00020 | -.00122 | .00018 | .00018 | .00000 | .00000 | .00049 | -.00013 | .00049 | -.00013 |

RUN NO. 414/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPD8RK | ELV-18 | ELV-08 | AIL-18 | AIL-08 |
|------|----------|---------|---------|---------|---------|--------|----------|---------|--------|---------|---------|
| .950 | -14.741 | 5.22880 | .05220 | .00540 | -.00030 | .00000 | 25.00000 | .00510 | .00570 | .00510 | -.00570 |
| .951 | -5.373 | 5.22910 | .04790 | -.00220 | -.00790 | .00970 | 25.00000 | .00510 | .00940 | .00510 | -.02090 |
| .950 | -2.727 | 5.22610 | .04650 | -.00720 | -.01290 | .00970 | 25.00000 | .00510 | .01950 | .00510 | -.03100 |
| .951 | -.103 | 5.22970 | .04360 | .00320 | -.00830 | .00970 | 25.00000 | .00000 | .00640 | .00000 | -.01650 |
| .950 | 2.315 | 5.23140 | .03970 | -.00470 | -.01040 | .00970 | 25.00000 | .00000 | .00940 | .00000 | -.02090 |
| .950 | 4.968 | 5.23060 | .03670 | -.00180 | -.01330 | .00970 | 25.00000 | .00000 | .00370 | .00000 | -.02660 |
| .950 | 9.700 | 5.23500 | .03420 | -.00180 | -.01330 | .00970 | 25.00000 | .00510 | .00870 | .00510 | -.03170 |
| .949 | 14.530 | 5.23670 | .03130 | -.00940 | -.02090 | .01940 | 25.00000 | .00510 | .02390 | .00510 | -.04680 |
| .949 | 18.061 | 5.23870 | .02910 | .00540 | -.00030 | .01940 | 25.00000 | .00510 | .00570 | .00510 | -.00570 |
| .950 | 22.827 | 5.24210 | .02640 | .00830 | -.00320 | .00970 | 25.00000 | .00510 | .01150 | .00510 | -.01150 |
| | GRADIENT | .00059 | -.00130 | .00034 | -.00013 | .00000 | .00000 | -.00060 | .00128 | -.00060 | .00035 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

AMES 118-1-11 OAI45A 01(-TO+)

(CF062) (16 JUL 77)

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA =
ELEVON =
BDFLAP =
RN/L =
5.000 BETA =
.000 AILRON =
.000 SPDBRK =
5.000

RUN NO. 357/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|---------|---------|---------|---------|---------|----------|---------|---------|---------|---------|
| 1.093 | -15.389 | 5.15480 | .03960 | .01500 | -.00060 | .00000 | 25.00000 | .02010 | .01000 | .00030 | -.00150 |
| 1.102 | -10.315 | 5.13520 | .03900 | .01000 | -.00070 | .00000 | 25.00000 | .01000 | .01000 | .00010 | -.00150 |
| 1.102 | -5.101 | 5.13190 | .03760 | .00710 | -.00070 | .00000 | 25.00000 | .01000 | .01000 | .00010 | -.00150 |
| 1.100 | -2.522 | 5.13080 | .03660 | .01000 | -.00070 | .00000 | 25.00000 | .00500 | .01000 | .00010 | -.00150 |
| 1.100 | .102 | 5.13100 | .03510 | .00460 | -.00040 | .01000 | 25.00000 | .00500 | .00430 | -.00500 | .00430 |
| 1.100 | 2.532 | 5.13290 | .03250 | .00710 | -.00040 | .00000 | 25.00000 | .00500 | .00430 | -.00500 | .00430 |
| 1.100 | 4.848 | 5.13510 | .02990 | .00710 | .00220 | .00000 | 25.00000 | .01000 | .00430 | .00010 | .00430 |
| 1.101 | 9.584 | 5.13990 | .02770 | .00710 | .00220 | .01000 | 25.00000 | .01000 | .00430 | .00010 | .00430 |
| 1.100 | 14.596 | 5.14490 | .02490 | .00710 | .00220 | .01000 | 25.00000 | .01000 | .00430 | .00010 | .00430 |
| 1.100 | 18.262 | 5.14900 | .02330 | .00710 | .00220 | .01000 | 25.00000 | .01000 | .00430 | .00010 | .00430 |
| 1.100 | 22.670 | 5.15290 | .02160 | .00710 | .00220 | .00000 | 25.00000 | .01000 | .00430 | .00010 | .00430 |
| 1.100 | GRADIENT | .00060 | -.00092 | -.00037 | .00035 | -.00038 | .00000 | -.00003 | -.00071 | -.00003 | .00072 |

RUN NO. 360/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|---------|---------|--------|---------|---------|----------|--------|--------|---------|--------|
| 1.198 | -15.389 | 5.13610 | .04110 | .01720 | .00660 | .01000 | 25.00000 | .02020 | .01420 | .01030 | .00280 |
| 1.200 | -10.331 | 5.13260 | .03960 | .01720 | .00660 | .02000 | 25.00000 | .02020 | .01420 | .01030 | .00280 |
| 1.199 | -5.076 | 5.13270 | .03820 | .01720 | .00660 | .02000 | 25.00000 | .02020 | .01420 | .01030 | .00280 |
| 1.201 | -4.104 | 5.13290 | .03780 | .01720 | .00660 | .02000 | 25.00000 | .02020 | .01420 | .01030 | .00280 |
| 1.201 | -3.057 | 5.13220 | .03750 | .01720 | .00660 | .02000 | 25.00000 | .02020 | .01420 | .01030 | .00280 |
| 1.200 | -1.979 | 5.12970 | .03710 | .01480 | .00900 | .02000 | 25.00000 | .02020 | .01420 | .01030 | .00280 |
| 1.199 | -.970 | 5.13100 | .03630 | .01720 | .00660 | .03000 | 25.00000 | .02020 | .01420 | .01030 | .00280 |
| 1.199 | .000 | 5.13220 | .03510 | .01480 | .00900 | .02000 | 25.00000 | .02020 | .01420 | .01030 | .00280 |
| 1.200 | 1.031 | 5.13150 | .03400 | .01720 | .00660 | .02000 | 25.00000 | .02020 | .01420 | .01030 | .00280 |
| 1.200 | 2.057 | 5.13410 | .03270 | .01720 | .00660 | .02000 | 25.00000 | .02020 | .01420 | .01030 | .00280 |
| 1.200 | 3.000 | 5.14000 | .03200 | .01720 | .00660 | .02000 | 25.00000 | .02020 | .01420 | .01030 | .00280 |
| 1.200 | 3.937 | 5.13260 | .03130 | .01720 | .00660 | .02000 | 25.00000 | .02020 | .01420 | .01030 | .00280 |
| 1.199 | 4.856 | 5.13740 | .02910 | .01470 | .00400 | .03000 | 25.00000 | .02020 | .01420 | .01030 | .00280 |
| 1.201 | 9.584 | 5.13740 | .02910 | .01470 | .00400 | .03000 | 25.00000 | .02020 | .01420 | .01030 | .00280 |
| 1.201 | 14.614 | 5.14310 | .02720 | .01470 | .00400 | .03000 | 25.00000 | .02020 | .01420 | .01030 | .00280 |
| 1.201 | 18.253 | 5.14420 | .02540 | .01220 | .00650 | .03000 | 25.00000 | .02020 | .01420 | .01030 | .00280 |
| 1.200 | 22.642 | 5.14850 | .02380 | .01470 | .00400 | .02000 | 25.00000 | .02020 | .01420 | .01030 | .00280 |
| 1.199 | GRADIENT | .00028 | -.00079 | .00009 | -.00009 | -.00006 | .00000 | .00017 | .00000 | -.00018 | .00000 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1061

AMES 110-1-11 0A145A 0: (-70+)

(08F082) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8100 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0500

ALPHA =
 ELEVON =
 BDFLAP =
 RN/L =

BETA = .000
 AILRON = .000
 SPDBRK = 25.000

PARAMETRIC DATA

RUN NO. 380/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-IB | AIL-IB | AIL-OB |
|-------|----------|---------|---------|--------|---------|--------|----------|--------|---------|---------|
| 1.298 | -15.372 | 4.81610 | .06180 | .01040 | -.00530 | .00000 | 25.00000 | .01500 | -.00480 | -.00570 |
| 1.298 | -10.299 | 4.81190 | .06060 | .01040 | -.00530 | .01000 | 25.00000 | .01500 | -.00480 | -.00570 |
| 1.297 | -5.101 | 4.80880 | .05900 | .01040 | -.00530 | .00000 | 25.00000 | .01500 | -.00480 | -.00570 |
| 1.298 | -2.476 | 4.80950 | .05770 | .01040 | -.00530 | .00000 | 25.00000 | .01500 | -.00480 | -.00570 |
| 1.298 | -.033 | 4.81050 | .05580 | .01250 | -.00310 | .01000 | 25.00000 | .01500 | -.00480 | -.00150 |
| 1.297 | 2.532 | 4.81180 | .05470 | .01250 | -.00310 | .00000 | 25.00000 | .01500 | -.00480 | -.00150 |
| 1.297 | 4.856 | 4.81300 | .05340 | .01250 | -.00310 | .01000 | 25.00000 | .01500 | -.00480 | -.00150 |
| 1.297 | 9.584 | 4.81690 | .05140 | .01250 | -.00310 | .00000 | 25.00000 | .01500 | -.00480 | -.00150 |
| 1.296 | 14.614 | 4.82340 | .04960 | .01250 | -.00310 | .01000 | 25.00000 | .01500 | -.00480 | -.00150 |
| 1.297 | 18.308 | 4.82830 | .04800 | .01250 | -.00310 | .00000 | 25.00000 | .01500 | -.00480 | -.00150 |
| 1.297 | 22.623 | 4.83280 | .04610 | .01250 | -.00310 | .01000 | 25.00000 | .01500 | -.00480 | -.00150 |
| 1.297 | GRADIENT | .00048 | -.00057 | .00026 | .00027 | .00079 | .00000 | .00000 | .00000 | .00051 |

RUN NO. 370/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-IB | AIL-IB | AIL-OB |
|-------|----------|---------|---------|---------|---------|---------|----------|---------|---------|---------|
| 1.403 | -15.372 | 4.77450 | .05900 | .00780 | -.00780 | .01000 | 25.00000 | .00990 | -.00990 | -.00570 |
| 1.403 | -10.299 | 4.77160 | .05770 | .01030 | -.01030 | .02000 | 25.00000 | .01490 | -.01490 | -.00570 |
| 1.403 | -5.084 | 4.76930 | .05570 | .01030 | -.01030 | .02000 | 25.00000 | .01490 | -.01490 | -.00570 |
| 1.403 | -2.531 | 4.76580 | .05430 | .01030 | -.01030 | .02000 | 25.00000 | .01490 | -.01490 | -.00570 |
| 1.403 | .034 | 4.85510 | .04920 | .01030 | -.01030 | .02000 | 25.00000 | .00990 | -.00990 | -.00570 |
| 1.403 | 2.524 | 4.85580 | .04750 | .00780 | -.00780 | .01000 | 25.00000 | .00300 | -.00300 | -.00570 |
| 1.404 | 4.864 | 4.85650 | .04660 | .00530 | -.00530 | .02000 | 25.00000 | .00300 | -.00300 | -.00570 |
| 1.403 | 9.567 | 4.86150 | .04530 | .01030 | -.01030 | .02000 | 25.00000 | .01490 | -.01490 | -.00570 |
| 1.403 | 14.605 | 4.86640 | .04360 | .01030 | -.01030 | .02000 | 25.00000 | .01490 | -.01490 | -.00570 |
| 1.403 | 18.271 | 4.86990 | .04230 | .01030 | -.01030 | .02000 | 25.00000 | .01490 | -.01490 | -.00570 |
| 1.403 | 22.670 | 4.87540 | .04070 | .01280 | -.00770 | .02000 | 25.00000 | .02000 | -.00980 | -.00570 |
| 1.402 | GRADIENT | .01120 | -.00101 | -.00070 | .00070 | -.00043 | .00000 | -.00140 | .00140 | -.00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1062

AMES 118-1-11 OAI45A 01(*TO-)

(C2F063) (.16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPOBRK = 25.000
 RN/L = 5.000

RUN NO. 324/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | ELV-1B | AIL-1B | AIL-OB |
|------|----------|---------|---------|--------|---------|--------|----------|--------|---------|---------|
| .597 | -22.170 | 4.99970 | .06440 | .01250 | -.00310 | .00000 | 25.00000 | .01000 | -.00480 | -.00150 |
| .597 | -15.372 | 4.99910 | .05970 | .01250 | -.00310 | .00000 | 25.00000 | .01000 | -.00480 | -.00150 |
| .597 | -10.307 | 4.99800 | .05670 | .01250 | -.00310 | .00000 | 25.00000 | .01000 | -.00480 | -.00150 |
| .597 | -5.093 | 4.99840 | .05280 | .01250 | -.00310 | .00000 | 25.00000 | .01000 | -.00480 | -.00150 |
| .596 | -3.066 | 4.99820 | .05130 | .01500 | -.00060 | .00000 | 25.00000 | .01000 | .00030 | -.00150 |
| .597 | -1.979 | 4.99850 | .05040 | .01500 | -.00060 | .00000 | 25.00000 | .01000 | .00030 | -.00150 |
| .597 | -.962 | 4.99910 | .04940 | .01500 | -.00060 | .00000 | 25.00000 | .01000 | .00030 | -.00150 |
| .597 | .026 | 4.99920 | .04860 | .01500 | -.00060 | .00000 | 25.00000 | .01000 | .00030 | -.00150 |
| .597 | 1.031 | 4.99970 | .04690 | .01500 | -.00060 | .01000 | 25.00000 | .01000 | .00030 | -.00150 |
| .597 | 2.073 | 4.99970 | .04560 | .01500 | -.00060 | .00000 | 25.00000 | .01000 | .00030 | -.00150 |
| .596 | 3.880 | 4.99930 | .04450 | .01500 | -.00060 | .00000 | 25.00000 | .01000 | .00030 | -.00150 |
| .596 | 5.0010 | 5.00010 | .04340 | .01500 | -.00060 | .00000 | 25.00000 | .01000 | .00030 | -.00150 |
| .597 | 4.873 | 5.00010 | .04260 | .01500 | -.00060 | .00000 | 25.00000 | .01000 | .00030 | -.00150 |
| .596 | 9.584 | 5.00060 | .03920 | .01500 | -.00060 | .01000 | 25.00000 | .01000 | .00030 | -.00150 |
| .597 | 14.596 | 5.00160 | .03530 | .01500 | -.00060 | .01000 | 25.00000 | .01000 | .00030 | -.00150 |
| .597 | 18.253 | 5.00290 | .03280 | .01500 | -.00060 | .01000 | 25.00000 | .01000 | .00030 | -.00150 |
| .597 | 23.109 | 5.00460 | .02930 | .01500 | -.00060 | .01000 | 25.00000 | .01000 | .00030 | -.00150 |
| .597 | GRADIENT | .00023 | -.00116 | .00000 | -.00000 | .00059 | .00000 | .00000 | .00000 | -.00000 |

RUN NO. 351/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | ELV-1B | AIL-1B | AIL-OB |
|------|----------|---------|---------|---------|---------|--------|----------|---------|---------|---------|
| .902 | -22.179 | 5.11690 | .07670 | .01390 | .00400 | .01000 | 25.00000 | .01500 | -.00480 | .01280 |
| .901 | -15.372 | 5.11500 | .07240 | .01390 | .00400 | .01000 | 25.00000 | .01500 | -.00480 | .01280 |
| .901 | -10.323 | 5.11310 | .06940 | .01640 | .00650 | .02000 | 25.00000 | .02010 | -.00480 | .01280 |
| .902 | -5.110 | 5.11320 | .06650 | .01390 | .00400 | .02000 | 25.00000 | .02010 | .00030 | .01280 |
| .901 | -3.066 | 5.11210 | .06480 | .01640 | .00650 | .02000 | 25.00000 | .02010 | .00030 | .01280 |
| .902 | -1.988 | 5.11270 | .06370 | .01640 | .00650 | .02000 | 25.00000 | .02010 | .00030 | .01280 |
| .901 | -.954 | 5.11410 | .06220 | .01640 | .00650 | .02000 | 25.00000 | .02010 | .00030 | .01280 |
| .901 | .017 | 5.11600 | .06090 | .01640 | .00650 | .02000 | 25.00000 | .02010 | .00030 | .01280 |
| .901 | 1.023 | 5.11320 | .05970 | .01900 | .00910 | .02000 | 25.00000 | .02520 | .00540 | .01280 |
| .901 | 2.065 | 5.11570 | .05840 | .01900 | .00910 | .02000 | 25.00000 | .02520 | .00540 | .01280 |
| .901 | 3.921 | 5.11500 | .05700 | .01180 | .00180 | .02000 | 25.00000 | .01500 | -.00480 | .00850 |
| .901 | 4.856 | 5.11660 | .05620 | .01180 | .00180 | .02000 | 25.00000 | .01500 | -.00480 | .00850 |
| .902 | 9.576 | 5.11600 | .05510 | .00930 | .00430 | .02000 | 25.00000 | .01000 | .00010 | .00850 |
| .902 | 14.586 | 5.11780 | .05190 | .00930 | .00430 | .02000 | 25.00000 | .01000 | .00010 | .00850 |
| .901 | 18.262 | 5.11970 | .04820 | .01430 | .00440 | .02000 | 25.00000 | .02010 | .00030 | .00850 |
| .902 | 22.855 | 5.12010 | .04610 | .01430 | .00440 | .02000 | 25.00000 | .02010 | .00030 | .00850 |
| .898 | GRADIENT | .00049 | -.00125 | -.00081 | -.00049 | .00034 | .00000 | -.00100 | -.00034 | -.00065 |

DATE 10 MAR 80

OAI145 TABULATED FORCE DATA

PAGE 1063

AMES 118-1-11 OAI145A 01(+TO-)

(C2F063) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

ALPHA =
ELEVON =
BOFLAP =
RN/L =

5.000 BETA = .000
.000 AILRON = .000
.000 SPDBRK = 25.000
5.000

PARAMETRIC DATA

RUN NO. 361/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | ELV-1B | AIL-1B | ELV-0B | AIL-0B |
|-------|----------|---------|---------|--------|--------|--------|----------|--------|--------|---------|--------|
| 1.199 | -22.205 | 5.14210 | .04360 | .00970 | .00390 | .02000 | 25.00000 | .00510 | .00510 | .01420 | .00280 |
| 1.199 | -15.398 | 5.13490 | .04130 | .00970 | .00390 | .00000 | 25.00000 | .00510 | .00510 | .01420 | .00280 |
| 1.199 | -10.339 | 5.13150 | .04010 | .00970 | .00390 | .01000 | 25.00000 | .00510 | .00510 | .01420 | .00280 |
| 1.200 | -5.135 | 5.13160 | .03810 | .00970 | .00390 | .01000 | 25.00000 | .00510 | .00510 | .01420 | .00280 |
| 1.201 | -3.066 | 5.13290 | .03680 | .01250 | .00110 | .01000 | 25.00000 | .00510 | .00510 | .02000 | .00300 |
| 1.199 | -1.997 | 5.13080 | .03600 | .00970 | .00390 | .01000 | 25.00000 | .00510 | .00510 | .01420 | .00280 |
| 1.199 | -.979 | 5.13180 | .03470 | .01250 | .00110 | .01000 | 25.00000 | .00510 | .00510 | .02000 | .00300 |
| 1.199 | -.017 | 5.13210 | .03430 | .00970 | .00390 | .02000 | 25.00000 | .00510 | .00510 | .01420 | .00280 |
| 1.199 | 1.040 | 5.13220 | .03290 | .01220 | .00650 | .02000 | 25.00000 | .01020 | .01020 | .01420 | .00280 |
| 1.200 | 2.065 | 5.13320 | .03190 | .01220 | .00650 | .02000 | 25.00000 | .01020 | .01020 | .01420 | .00280 |
| 1.199 | 3.008 | 5.13440 | .03110 | .01220 | .00650 | .02000 | 25.00000 | .01020 | .01020 | .01420 | .00280 |
| 1.199 | 3.929 | 5.13510 | .03080 | .01220 | .00650 | .02000 | 25.00000 | .01020 | .01020 | .01420 | .00280 |
| 1.200 | 4.839 | 5.13420 | .03040 | .01220 | .00650 | .02000 | 25.00000 | .01020 | .01020 | .01420 | .00280 |
| 1.201 | 9.559 | 5.13900 | .02880 | .01220 | .00650 | .02000 | 25.00000 | .01020 | .01020 | .01420 | .00280 |
| 1.201 | 14.577 | 5.14550 | .02710 | .01220 | .00650 | .02000 | 25.00000 | .01020 | .01020 | .01420 | .00280 |
| 1.201 | 18.243 | 5.14650 | .02550 | .01220 | .00650 | .02000 | 25.00000 | .01020 | .01020 | .01420 | .00280 |
| 1.200 | 22.642 | 5.15030 | .02390 | .01470 | .00400 | .01000 | 25.00000 | .01510 | .00520 | .01420 | .00280 |
| | GRADIENT | .00041 | -.00086 | .00014 | .00073 | .00152 | .00000 | .00086 | .00085 | -.00059 | .00059 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1064

AMES 118-1-11 OAI45A 01

(C2F064) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .0000 BETA = .0000
 ELEVON = .0000 AILRON = .0000
 BDFLAP = .0000 SPDGRK = 25.0000
 RN/L = 5.000

RUN NO. 325/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDGRK | ELV-OB | AIL-IB | AIL-OB |
|------|----------|----------|---------|--------|---------|--------|----------|--------|---------|---------|
| .597 | -15.364 | 10.12200 | .09690 | .01290 | -.00270 | .00000 | 25.00000 | .00570 | .00030 | -.00570 |
| .597 | -10.307 | 10.12100 | .09370 | .01290 | -.00270 | .00000 | 25.00000 | .00570 | .00030 | -.00570 |
| .597 | -5.118 | 10.12200 | .08970 | .01290 | -.00270 | .00000 | 25.00000 | .00570 | .00030 | -.00570 |
| .596 | -2.541 | 10.12200 | .08800 | .01790 | -.00770 | .00000 | 25.00000 | .00570 | -.00960 | -.00570 |
| .597 | .000 | 10.12400 | .08570 | .01790 | -.00770 | .00000 | 25.00000 | .00570 | -.00960 | -.00570 |
| .597 | 2.541 | 10.12700 | .08250 | .01790 | -.00770 | .00000 | 25.00000 | .00570 | -.00960 | -.00570 |
| .597 | 5.028 | 10.12700 | .08020 | .01790 | -.00770 | .00000 | 25.00000 | .00570 | -.00960 | -.00570 |
| .596 | 9.584 | 10.13000 | .07430 | .01790 | -.00770 | .00000 | 25.00000 | .00570 | -.00960 | -.00570 |
| .596 | 14.614 | 10.13100 | .07000 | .01790 | -.00770 | .01000 | 25.00000 | .00570 | -.00960 | -.00570 |
| .597 | 18.280 | 10.13400 | .06700 | .01790 | -.00770 | .01000 | 25.00000 | .00570 | -.00960 | -.00570 |
| .597 | 23.091 | 10.13700 | .06370 | .01790 | -.00770 | .01000 | 25.00000 | .00570 | -.00960 | -.00570 |
| | GRADIENT | .00098 | -.00108 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 |

RUN NO. 346/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDGRK | ELV-OB | AIL-IB | AIL-OB |
|------|----------|----------|---------|--------|---------|--------|----------|--------|---------|---------|
| .801 | -15.347 | 10.17400 | .10650 | .01250 | -.00310 | .00000 | 25.00000 | .01000 | -.00480 | -.00150 |
| .800 | -10.315 | 10.17300 | .10310 | .01540 | -.00600 | .00000 | 25.00000 | .01570 | -.00480 | -.00720 |
| .801 | -5.084 | 10.17400 | .09850 | .01540 | -.00600 | .00000 | 25.00000 | .01570 | -.00480 | -.00720 |
| .800 | -2.485 | 10.17300 | .09630 | .01540 | -.00600 | .00000 | 25.00000 | .01570 | -.00480 | -.00720 |
| .801 | .068 | 10.17600 | .09360 | .01540 | -.00600 | .00000 | 25.00000 | .01570 | -.00480 | -.00720 |
| .801 | 2.549 | 10.17800 | .09060 | .01540 | -.00600 | .00000 | 25.00000 | .01570 | -.00480 | -.00720 |
| .799 | 4.873 | 10.17700 | .08790 | .01540 | -.00600 | .01000 | 25.00000 | .01570 | -.00480 | -.00720 |
| .801 | 9.584 | 10.18200 | .08200 | .01540 | -.00600 | .01000 | 25.00000 | .01570 | -.00480 | -.00720 |
| .801 | 14.614 | 10.18400 | .07800 | .01540 | -.00600 | .01000 | 25.00000 | .01570 | -.00480 | -.00720 |
| .800 | 18.280 | 10.18500 | .07500 | .01250 | -.00310 | .01000 | 25.00000 | .01000 | -.00480 | -.00150 |
| .800 | 23.009 | 10.18800 | .07210 | .01250 | -.00310 | .01000 | 25.00000 | .01000 | -.00480 | -.00150 |
| | GRADIENT | .00058 | -.00115 | .00000 | -.00000 | .00120 | .00000 | .00000 | .00000 | .00000 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

(C2F064) (16 JUL 77)

ANES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = 25.000
 RN/L = 5.000

RUN NO. 352/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-IB | AIL-IB | AIL-OB |
|------|----------|----------|---------|---------|--------|--------|----------|---------|--------|--------|
| .900 | -15.355 | 10.22600 | .10430 | .01640 | .00650 | .02000 | 25.00000 | .02010 | .00030 | .01280 |
| .902 | -10.307 | 10.22500 | .10130 | .01640 | .00650 | .02000 | 25.00000 | .02010 | .00030 | .01280 |
| .901 | -5.110 | 10.22700 | .09760 | .01640 | .00650 | .02000 | 25.00000 | .02010 | .00030 | .01280 |
| .901 | -2.522 | 10.22900 | .09580 | .06090 | .04310 | .02000 | 25.00000 | .02010 | .00890 | .01280 |
| .901 | .060 | 10.23100 | .09310 | .05840 | .04060 | .02000 | 25.00000 | .02010 | .00930 | .01280 |
| .901 | 2.516 | 10.23300 | .09010 | .06350 | .04050 | .02000 | 25.00000 | .02010 | .00930 | .01280 |
| .902 | 4.897 | 10.23500 | .08480 | .01640 | .00650 | .02000 | 25.00000 | .02010 | .00030 | .01280 |
| .902 | 9.567 | 10.23800 | .08180 | .01640 | .00650 | .02000 | 25.00000 | .02010 | .00030 | .01280 |
| .900 | 14.586 | 10.23900 | .07820 | .01640 | .00650 | .02000 | 25.00000 | .02010 | .00030 | .01280 |
| .901 | 18.262 | 10.24500 | .07600 | .01850 | .00860 | .02000 | 25.00000 | .02010 | .00030 | .01280 |
| .901 | 22.836 | 10.24100 | .07310 | .01640 | .00650 | .02000 | 25.00000 | .02010 | .00030 | .01280 |
| .900 | GRADIENT | .00081 | -.00145 | -.00513 | .00595 | .00081 | .00000 | -.01026 | .01190 | .00000 |

RUN NO. 415/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-IB | AIL-IB | AIL-OB |
|------|----------|----------|---------|--------|---------|--------|----------|---------|--------|---------|
| .950 | -14.747 | 10.37300 | .05660 | .01000 | -.00150 | .00970 | 25.00000 | .00970 | .00000 | .00300 |
| .951 | -10.691 | 10.37100 | .05340 | .01250 | .00110 | .00970 | 25.00000 | .00510 | .00510 | .00300 |
| .952 | -5.344 | 10.37300 | .05090 | .01250 | .00110 | .01940 | 25.00000 | .00510 | .00510 | .00300 |
| .950 | -2.760 | 10.37300 | .04860 | .01250 | .00110 | .00970 | 25.00000 | .00510 | .00510 | .00300 |
| .951 | -.083 | 10.37100 | .04570 | .01250 | .00110 | .01940 | 25.00000 | .00510 | .00510 | .00300 |
| .952 | 2.324 | 10.37600 | .04260 | .01250 | .00110 | .00970 | 25.00000 | .00510 | .00510 | .00300 |
| .950 | 4.802 | 10.37500 | .03930 | .01250 | .00110 | .01940 | 25.00000 | .00510 | .00510 | .00300 |
| .950 | 9.700 | 10.37800 | .03570 | .01250 | .00110 | .01940 | 25.00000 | .00510 | .00510 | .00300 |
| .950 | 14.538 | 10.38000 | .03260 | .01250 | .00110 | .00970 | 25.00000 | .00510 | .00510 | .00300 |
| .950 | 18.061 | 10.38500 | .03070 | .01250 | .00110 | .00970 | 25.00000 | .00510 | .00510 | .00300 |
| .950 | 22.771 | 10.38400 | .02760 | .01250 | .00110 | .00000 | 25.00000 | .00510 | .00510 | .00300 |
| .950 | GRADIENT | .00043 | -.00123 | .00000 | .00000 | .00079 | .00000 | -.00000 | .00000 | -.00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

AMES 118-1-11 OAI45A 01

(CF064) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA =
 ELEVON =
 BOFLAP =
 RN/L =
 BETA =
 AILRON =
 SPDRK =
 10.000
 .000
 .000
 5.000
 .000
 .000
 25.000

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO.

362/ 0

4.93

RN/L =

362/ 0

RUN NO.

GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDRK | ELV-08 | AIL-08 | AIL-0B |
|-------|----------|----------|---------|---------|--------|---------|----------|---------|--------|--------|
| 1.199 | -15.381 | 10.24300 | .04210 | .01220 | .00650 | .02000 | 25.00000 | .01420 | .01020 | .00280 |
| 1.201 | -10.339 | 10.23800 | .04090 | .01220 | .00650 | .03000 | 25.00000 | .01420 | .01020 | .00280 |
| 1.199 | -5.101 | 10.23600 | .03890 | .01220 | .00650 | .03000 | 25.00000 | .01420 | .01020 | .00280 |
| 1.201 | -2.541 | 10.23300 | .03680 | .01510 | .00360 | .02000 | 25.00000 | .02000 | .01020 | .00300 |
| 1.201 | 2.541 | 10.23600 | .03680 | .01220 | .00650 | .03000 | 25.00000 | .01420 | .01020 | .00280 |
| 1.200 | 4.864 | 10.23900 | .03490 | .01220 | .00650 | .02000 | 25.00000 | .01420 | .01020 | .00280 |
| 1.201 | 8.737 | 10.24100 | .03300 | .01220 | .00650 | .02000 | 25.00000 | .01420 | .01020 | .00280 |
| 1.199 | 14.577 | 10.24300 | .02980 | .00970 | .00390 | .03000 | 25.00000 | .02000 | .00510 | .00300 |
| 1.199 | 18.280 | 10.25200 | .02640 | .01250 | .00110 | .03000 | 25.00000 | .01420 | .00510 | .00280 |
| 1.199 | 22.614 | 10.25500 | .02430 | .00970 | .00390 | .02000 | 25.00000 | .01420 | .01020 | .00280 |
| 1.199 | GRADIENT | 10.25900 | .02230 | .01220 | .00650 | .02000 | 25.00000 | .01420 | .01020 | .00280 |
| | | .00109 | -.00075 | -.00035 | .00035 | -.00041 | -.00000 | -.00071 | .00000 | .00071 |

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO.

379/ 0

4.98

RN/L =

379/ 0

RUN NO.

GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDRK | ELV-08 | AIL-08 | AIL-0B |
|-------|----------|----------|---------|--------|---------|---------|----------|---------|--------|--------|
| 1.300 | -15.381 | 9.99460 | .05920 | .01250 | .00310 | .01000 | 25.00000 | .01000 | .00480 | .00150 |
| 1.299 | -10.291 | 9.99330 | .05790 | .01250 | .00310 | .02000 | 25.00000 | .01000 | .00480 | .00150 |
| 1.299 | -5.160 | 9.99080 | .05610 | .01250 | .00310 | .02000 | 25.00000 | .01000 | .00480 | .00150 |
| 1.299 | -2.531 | 9.99210 | .05470 | .01250 | .00310 | .02000 | 25.00000 | .01000 | .00480 | .00150 |
| 1.299 | .077 | 9.99170 | .05320 | .01250 | .00310 | .02000 | 25.00000 | .01000 | .00480 | .00150 |
| 1.298 | 2.524 | 9.99380 | .05110 | .01250 | .00310 | .01000 | 25.00000 | .01000 | .00480 | .00150 |
| 1.298 | 4.814 | 9.99490 | .04960 | .01500 | .00560 | .00000 | 25.00000 | .01000 | .00480 | .00150 |
| 1.297 | 9.601 | 10.00000 | .04590 | .01250 | .00310 | .00000 | 25.00000 | .01000 | .00480 | .00150 |
| 1.298 | 14.633 | 10.00500 | .04320 | .01250 | .00310 | .01000 | 25.00000 | .01000 | .00480 | .00150 |
| 1.297 | 18.253 | 10.01000 | .04160 | .01250 | .00310 | .01000 | 25.00000 | .01000 | .00480 | .00150 |
| 1.297 | 22.679 | 10.01500 | .03960 | .01250 | .00310 | .01000 | 25.00000 | .01000 | .00480 | .00150 |
| 1.297 | GRADIENT | .00042 | -.00071 | .00030 | -.00030 | -.00283 | -.00000 | -.00000 | .00060 | .00000 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(C2F064) (16 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA
 ALPHA = .000
 ELEVON = .000
 BDFLAP = .000
 RN/L = 5.000

RUN NO. 371/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-08 | AIL-08 | AIL-08 |
|-------|----------|----------|---------|--------|---------|---------|----------|--------|---------|---------|
| 1.399 | -15.389 | 9.99720 | .06710 | .01860 | -.01350 | .01000 | 25.00000 | .01720 | -.00980 | -.01720 |
| 1.401 | -10.315 | 9.99330 | .06590 | .01570 | -.01060 | .03000 | 25.00000 | .01150 | -.00980 | -.01150 |
| 1.401 | -5.127 | 9.99380 | .06310 | .01570 | -.01060 | .02000 | 25.00000 | .00570 | -.00980 | -.01150 |
| 1.401 | -2.504 | 9.99340 | .06180 | .01280 | -.00770 | .02000 | 25.00000 | .00570 | -.00980 | -.00570 |
| 1.401 | .111 | 9.99550 | .06080 | .01280 | -.00770 | .02000 | 25.00000 | .00570 | -.00980 | -.00570 |
| 1.402 | 2.499 | 9.99660 | .05860 | .01280 | -.00770 | .02000 | 25.00000 | .00570 | -.00980 | -.00570 |
| 1.402 | 4.856 | 9.99710 | .05700 | .01280 | -.00770 | .02000 | 25.00000 | .00570 | -.00980 | -.00570 |
| 1.403 | 9.567 | 10.00000 | .05480 | .01280 | -.00770 | .02000 | 25.00000 | .00570 | -.00980 | -.00570 |
| 1.403 | 14.586 | 10.00300 | .05300 | .01570 | -.01060 | .02000 | 25.00000 | .01150 | -.00980 | -.01150 |
| 1.401 | 18.253 | 10.01000 | .05140 | .01570 | -.01060 | .02000 | 25.00000 | .01150 | -.00980 | -.01150 |
| 1.401 | 22.688 | 10.01500 | .04980 | .01570 | -.01060 | .02000 | 25.00000 | .01150 | -.00980 | -.01150 |
| | GRADIENT | .00050 | -.00068 | .00000 | -.00000 | -.00042 | .00000 | .00000 | -.00000 | -.00000 |

AMES 118-1-11 OAI45A 01

(C2F065) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA
 ALPHA = .000
 ELEVON = .000
 BDFLAP = .000
 RN/L = 5.000

RUN NO. 326/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-08 | AIL-08 | AIL-08 |
|------|----------|----------|---------|---------|---------|--------|----------|--------|--------|---------|
| .597 | -15.372 | 15.24900 | .15890 | .01720 | .00150 | .00000 | 25.00000 | .01420 | .00030 | .00280 |
| .598 | -10.323 | 15.25200 | .15320 | .02000 | -.00130 | .00000 | 25.00000 | .01420 | .00030 | -.00300 |
| .596 | -5.093 | 15.25100 | .14690 | .01720 | .00150 | .00000 | 25.00000 | .01420 | .00030 | .00280 |
| .597 | -2.513 | 15.25500 | .14420 | .02250 | -.00380 | .00000 | 25.00000 | .01420 | .00030 | -.00300 |
| .597 | .068 | 15.25200 | .14170 | .01710 | -.00350 | .00000 | 25.00000 | .01420 | .00030 | .00280 |
| .597 | 2.524 | 15.25400 | .13710 | .02000 | -.00130 | .00000 | 25.00000 | .02000 | .00030 | -.00300 |
| .597 | 4.864 | 15.25700 | .13410 | .02000 | -.00130 | .00000 | 25.00000 | .02000 | .00030 | -.00300 |
| .596 | 9.593 | 15.25900 | .12810 | .02000 | -.00130 | .00000 | 25.00000 | .02000 | .00030 | -.00300 |
| .595 | 14.623 | 15.25800 | .12090 | .02000 | -.00130 | .01000 | 25.00000 | .02000 | .00030 | -.00300 |
| .597 | 18.299 | 15.26500 | .11650 | .01750 | -.00390 | .01000 | 25.00000 | .01420 | .00480 | -.00280 |
| .596 | 23.091 | 15.26600 | .11200 | .01460 | -.00100 | .00000 | 25.00000 | .01420 | .00480 | -.00280 |
| | GRADIENT | .00031 | -.00142 | -.00020 | .00039 | .00000 | .00000 | .00022 | .00101 | -.00022 |

OAI45 TABULATED FORCE DATA

AMES 118-1-11 OAI45A 01

DATE 10 MAR 80

(C2F055) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 15.000 BETA = .000
ELEVON = .000 AILRON = .000
BDFLAP = .000 SPOBRK = 25.000
RN/L = 5.000

RUN NO. 363/ 0 RN/L = 4.92 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | ELV-08 | AIL-18 | AIL-08 |
|-------|----------|----------|---------|--------|---------|---------|----------|--------|--------|---------|
| 1.199 | -15.389 | 15.26400 | .03320 | .01000 | -.00070 | .02000 | 25.00000 | .01000 | .00010 | -.00150 |
| 1.199 | -10.315 | 15.26200 | .03010 | .01000 | -.00070 | .02000 | 25.00000 | .01000 | .00010 | -.00150 |
| 1.201 | -5.110 | 15.25800 | .02520 | .01000 | -.00070 | .02000 | 25.00000 | .01000 | .00010 | -.00150 |
| 1.201 | -2.504 | 15.26300 | .02490 | .01260 | .00190 | .03000 | 25.00000 | .01000 | .00520 | -.00150 |
| 1.201 | .008 | 15.26500 | .02250 | .01260 | .00190 | .03000 | 25.00000 | .01000 | .00520 | -.00150 |
| 1.200 | 2.507 | 15.26700 | .02090 | .01260 | .00190 | .03000 | 25.00000 | .01000 | .00520 | -.00150 |
| 1.200 | 4.873 | 15.26900 | .01780 | .01260 | .00190 | .03000 | 25.00000 | .01000 | .00520 | -.00150 |
| 1.200 | 9.618 | 15.27200 | .01410 | .01260 | .00190 | .03000 | 25.00000 | .01000 | .00520 | -.00150 |
| 1.199 | 14.596 | 15.27800 | .01030 | .01260 | .00190 | .03000 | 25.00000 | .01000 | .00520 | -.00150 |
| 1.199 | 22.670 | 15.28600 | .00500 | .01260 | .00190 | .03000 | 25.00000 | .01000 | .00520 | -.00150 |
| 1.199 | GRADIENT | .00081 | -.00093 | .00000 | .00000 | -.00042 | .00000 | .00000 | .00000 | -.00000 |

RUN NO. 378/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | ELV-08 | AIL-18 | AIL-08 |
|-------|----------|----------|---------|--------|---------|--------|----------|---------|---------|---------|
| 1.293 | -15.372 | 15.41600 | .06500 | .01780 | -.00850 | .00000 | 25.00000 | .01570 | -.00980 | -.00720 |
| 1.295 | -10.331 | 15.14100 | .08220 | .01500 | -.00560 | .01000 | 25.00000 | .01000 | -.00980 | -.00150 |
| 1.296 | -5.160 | 15.14100 | .07370 | .01500 | -.00560 | .01000 | 25.00000 | .01000 | -.00980 | -.00150 |
| 1.296 | -2.577 | 15.14000 | .07260 | .01500 | -.00560 | .02000 | 25.00000 | .01000 | -.00980 | -.00150 |
| 1.296 | -.033 | 15.14100 | .07150 | .01500 | -.00560 | .02000 | 25.00000 | .01000 | -.00980 | -.00150 |
| 1.296 | 2.541 | 15.14400 | .06650 | .01500 | -.00560 | .02000 | 25.00000 | .01000 | -.00980 | -.00150 |
| 1.296 | 4.856 | 15.14600 | .06430 | .01500 | -.00560 | .02000 | 25.00000 | .01000 | -.00980 | -.00150 |
| 1.296 | 9.618 | 15.15000 | .06370 | .01500 | -.00560 | .02000 | 25.00000 | .01000 | -.00980 | -.00150 |
| 1.296 | 14.568 | 15.15700 | .05990 | .01500 | -.00560 | .02000 | 25.00000 | .01000 | -.00980 | -.00150 |
| 1.296 | 18.271 | 15.16200 | .05550 | .01500 | -.00560 | .02000 | 25.00000 | .01000 | -.00980 | -.00150 |
| 1.296 | 22.688 | 15.16300 | .05760 | .01500 | -.00560 | .02000 | 25.00000 | .01000 | -.00980 | -.00150 |
| 1.295 | GRADIENT | .00084 | -.00119 | .00000 | .00000 | .00078 | -.00000 | -.00000 | -.00000 | -.00000 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

AMES 118-1-11 0A145A 01

(C2F065) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA
ALPHA = .000
ELEVON = .000
BDFLAP = .000
RN/L = 5.000
BETA = .000
AILRON = .000
SPDBRK = 25.000

RUN NO. 372/ 0 RN/L = 4.90 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|----------|---------|--------|---------|--------|----------|--------|--------|---------|---------|
| 1.393 | -15.398 | 15.09600 | .07360 | .01280 | -.00770 | .01000 | 25.00000 | .02000 | .00570 | -.00980 | -.00570 |
| 1.396 | -10.331 | 15.09100 | .07270 | .01280 | -.00770 | .02000 | 25.00000 | .02000 | .00570 | -.00980 | -.00570 |
| 1.399 | -5.110 | 15.08700 | .06900 | .01500 | -.00560 | .01000 | 25.00000 | .02000 | .01000 | -.00980 | -.00150 |
| 1.400 | -2.541 | 15.09000 | .06690 | .01500 | -.00560 | .01000 | 25.00000 | .02000 | .01000 | -.00980 | -.00150 |
| 1.400 | .000 | 15.09200 | .06190 | .01500 | -.00560 | .01000 | 25.00000 | .02000 | .01000 | -.00980 | -.00150 |
| 1.400 | 2.532 | 15.09300 | .06060 | .01500 | -.00560 | .01000 | 25.00000 | .02000 | .01000 | -.00980 | -.00150 |
| 1.400 | 4.848 | 15.09400 | .05980 | .01500 | -.00560 | .02000 | 25.00000 | .02000 | .01000 | -.00980 | -.00150 |
| 1.400 | 9.610 | 15.09800 | .05680 | .01500 | -.00560 | .01000 | 25.00000 | .02000 | .01000 | -.00980 | -.00150 |
| 1.400 | 14.614 | 15.10100 | .05450 | .01500 | -.00560 | .01000 | 25.00000 | .01500 | .01000 | -.00480 | -.00150 |
| 1.400 | 18.271 | 15.10600 | .05230 | .01250 | -.00310 | .02000 | 25.00000 | .02000 | .04000 | -.00980 | -.00150 |
| 1.400 | 22.688 | 15.11100 | .05110 | .01500 | -.00560 | .02000 | 25.00000 | .02000 | .04000 | -.00980 | -.00150 |
| | GRADIENT | .00053 | -.00092 | .00000 | -.00000 | .00119 | .00000 | .00000 | .00000 | -.00000 | -.00000 |

AMES 118-1-11 0A145A 01

(C2F066) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA
BETA = .000
ELEVON = .000
BDFLAP = .000
SPDBRK = 25.000
RUDDER = -5.000
RN/L = 5.000

RUN NO. 330/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|--------|---------|--------|----------|----------|--------|--------|--------|---------|
| .598 | -5.058 | -.03290 | .01580 | -.00560 | .02000 | 25.00000 | -5.11810 | .02010 | .01150 | .00030 | -.01150 |
| .600 | -.442 | -.00310 | .01580 | -.00560 | .02000 | 25.00000 | -5.11810 | .02010 | .01150 | .00030 | -.01150 |
| .598 | 2.481 | .01180 | .01580 | -.00560 | .02000 | 25.00000 | -5.11810 | .01500 | .01150 | .00030 | -.01150 |
| .597 | 5.030 | .01690 | .01320 | -.00810 | .02000 | 25.00000 | -5.11810 | .01500 | .01150 | .00480 | -.01150 |
| .597 | 7.029 | .05970 | .01320 | -.00810 | .02000 | 25.00000 | -5.11810 | .01500 | .01150 | .00480 | -.01150 |
| .597 | 8.006 | .06850 | .01320 | -.00810 | .02000 | 25.00000 | -5.11810 | .02010 | .00570 | .00030 | -.00570 |
| .597 | 10.102 | .08350 | .01290 | -.00270 | .01000 | 25.00000 | -5.11810 | .02010 | .00570 | .00030 | -.00570 |
| .597 | 12.155 | .09240 | .01290 | -.00270 | .01000 | 25.00000 | -5.11810 | .02010 | .00570 | .00030 | -.00570 |
| .597 | 15.209 | .11910 | .01330 | -.00310 | .01000 | 25.00000 | -5.12660 | .01510 | .01150 | .00520 | -.01150 |
| | GRADIENT | .00510 | .00000 | .00000 | .00000 | .00000 | -.00000 | .00000 | .00000 | .00000 | -.00000 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 25.000 RUDDER = -5.000
 RN/L = 5.000

| RUN NO. 347/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | |
|--|--------|---------|---------|---------|--------|----------|----------|---------|--------|
| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-OB | AIL-IB |
| .797 | -4.994 | -.02090 | .01720 | .00150 | .00000 | 25.00000 | -5.15200 | .01420 | .00030 |
| .799 | .011 | .01870 | .01500 | -.00060 | .00000 | 25.00000 | -5.15200 | .01000 | .00030 |
| .800 | 2.066 | .03200 | .01720 | .00150 | .00000 | 25.00000 | -5.15200 | .01420 | .00030 |
| .796 | 5.052 | .07040 | .01720 | .00150 | .00000 | 25.00000 | -5.15200 | .01000 | .00030 |
| .796 | 7.101 | .07520 | .01500 | -.00060 | .00000 | 25.00000 | -5.15200 | .01420 | .00030 |
| .798 | 8.135 | .08560 | .01220 | .00230 | .00000 | 25.00000 | -5.16040 | .00430 | .00030 |
| .796 | 10.194 | .10010 | .01250 | -.00310 | .00000 | 25.00000 | -5.15200 | .01000 | .00030 |
| .795 | 12.242 | .10460 | .00990 | -.00570 | .00000 | 25.00000 | -5.10970 | .01000 | .00990 |
| .792 | 15.322 | .12590 | .01250 | -.00310 | .01000 | 25.00000 | -5.10120 | .01000 | .00480 |
| GRADIENT | | .00757 | -.00008 | -.00008 | .00000 | .00000 | .00000 | -.00016 | .00000 |

| RUN NO. 384/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | |
|--|--------|---------|--------|---------|--------|----------|----------|--------|--------|
| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-OB | AIL-IB |
| .902 | -5.228 | .14450 | .00500 | -.00500 | .01000 | 25.00000 | -5.06740 | .00000 | .00990 |
| .904 | -.208 | .12650 | .00750 | -.00240 | .01000 | 25.00000 | -5.05900 | .00000 | .00480 |
| .900 | 1.824 | .12910 | .00750 | -.00240 | .02000 | 25.00000 | -5.16890 | .00000 | .00480 |
| .896 | 4.947 | .09230 | .00750 | -.00240 | .02000 | 25.00000 | -5.17730 | .00000 | .00480 |
| .900 | 7.010 | .11700 | .00500 | -.00500 | .02000 | 25.00000 | -5.14350 | .00000 | .00990 |
| .900 | 8.031 | .12230 | .00960 | -.00030 | .01000 | 25.00000 | -5.19420 | .00430 | .00480 |
| .899 | 10.072 | .13280 | .01250 | -.00310 | .01000 | 25.00000 | -5.19420 | .01000 | .00480 |
| .897 | 12.166 | .15810 | .00780 | -.00780 | .01000 | 25.00000 | -5.15200 | .00570 | .00990 |
| .901 | 15.221 | .19850 | .00780 | -.00780 | .01000 | 25.00000 | -5.18580 | .00570 | .00990 |
| GRADIENT | | -.00707 | .00000 | .00000 | .00178 | .00000 | -.02124 | .00000 | .00000 |

| RUN NO. 411/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | |
|--|--------|---------|---------|---------|--------|----------|----------|---------|---------|
| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-OB | AIL-IB |
| .951 | -4.966 | -.01980 | .01920 | -.00560 | .00000 | 25.00000 | -5.35850 | .00850 | .01970 |
| .949 | .123 | .01270 | .01490 | -.00980 | .00970 | 25.00000 | -5.35850 | .00000 | .01970 |
| .951 | 2.163 | .02560 | .01490 | -.00980 | .00970 | 25.00000 | -5.35850 | .00000 | .01970 |
| .948 | 5.189 | .06070 | .01780 | -.01270 | .01940 | 25.00000 | -5.35100 | .00570 | .01970 |
| .949 | 7.280 | .05230 | .01710 | -.00770 | .02910 | 25.00000 | -5.35100 | .00430 | .01970 |
| .947 | 8.303 | .04470 | .01990 | -.01060 | .00970 | 25.00000 | -5.35850 | .01000 | .01970 |
| .944 | 10.361 | .03320 | .01780 | -.01270 | .00970 | 25.00000 | -5.35100 | .00570 | .01970 |
| .949 | 12.390 | .04200 | .01780 | -.01270 | .00970 | 25.00000 | -5.35100 | .00570 | .01970 |
| .948 | 15.423 | .04390 | .01520 | -.01520 | .00970 | 25.00000 | -5.35850 | .00570 | .02480 |
| GRADIENT | | .00637 | -.00065 | -.00063 | .00257 | .00000 | -.00000 | -.00128 | -.00000 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(C2F066) (16 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = -5.000
 RN/L = 5.000

RUN NO. 358/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-08 |
|-------|----------|---------|---------|---------|--------|----------|----------|---------|---------|
| 1.101 | -5.075 | -.02780 | .01860 | .01370 | .01000 | 25.00000 | -5.10970 | .01700 | .01700 |
| 1.101 | -.018 | -.00340 | .01610 | .01110 | .00000 | 25.00000 | -5.10970 | .01700 | .01700 |
| 1.102 | 2.028 | .01420 | .01140 | .00640 | .00000 | 25.00000 | -5.10970 | .01280 | .01280 |
| 1.100 | 5.120 | .04130 | .01470 | .00400 | .00000 | 25.00000 | -5.10120 | .01420 | .01280 |
| 1.097 | 7.174 | .03630 | .01680 | .00510 | .01000 | 25.00000 | -5.10120 | .01950 | .01280 |
| 1.097 | 8.209 | .03260 | .01390 | .00900 | .01000 | 25.00000 | -5.10120 | .01280 | .01280 |
| 1.095 | 10.240 | .02880 | .01470 | .00400 | .00000 | 25.00000 | -5.10120 | .01420 | .01280 |
| 1.093 | 12.259 | .02690 | .01680 | .00510 | .01000 | 25.00000 | -5.10120 | .01950 | .01280 |
| 1.093 | 15.317 | .02940 | .01390 | .00900 | .01000 | 25.00000 | -5.10120 | .01280 | .01280 |
| 1.099 | GRADIENT | .00860 | -.00230 | -.00230 | .00000 | .00000 | .00000 | -.00205 | -.00205 |

RUN NO. 364/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-08 |
|-------|----------|---------|---------|---------|---------|----------|----------|---------|---------|
| 1.200 | -5.102 | -.03400 | .01510 | .00440 | .01000 | 25.00000 | -5.11810 | .01000 | .01030 |
| 1.200 | -4.846 | -.03080 | .01800 | .00160 | .01000 | 25.00000 | -5.11810 | .01570 | .01030 |
| 1.200 | -.057 | -.00270 | .01540 | -.00100 | .00000 | 25.00000 | -5.11810 | .00520 | .00520 |
| 1.198 | 2.512 | .00770 | .01040 | -.00020 | .00000 | 25.00000 | -5.11810 | .00570 | .00520 |
| 1.198 | 5.186 | .03580 | .01540 | -.00100 | .00000 | 25.00000 | -5.11810 | .01150 | .00520 |
| 1.196 | 7.158 | .02880 | .01330 | -.00310 | .00000 | 25.00000 | -5.10970 | .00570 | .00520 |
| 1.199 | 8.199 | .03180 | .01040 | -.00020 | .00000 | 25.00000 | -5.10970 | .01570 | .00520 |
| 1.198 | 10.271 | .03440 | .01540 | -.00100 | .01000 | 25.00000 | -5.10970 | .01570 | .00520 |
| 1.199 | 12.262 | .02550 | .01540 | -.00070 | .01000 | 25.00000 | -5.10970 | .01000 | .00010 |
| 1.199 | 15.287 | .04430 | .01000 | -.00070 | .01000 | 25.00000 | -5.10970 | .01000 | -.00074 |
| 1.198 | GRADIENT | .00531 | -.00097 | -.00028 | -.00145 | .00000 | .00000 | -.00119 | .00018 |

RUN NO. 377/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-08 |
|-------|----------|---------|--------|---------|--------|----------|----------|--------|--------|
| 1.297 | -5.289 | -.02810 | .01790 | -.00350 | .00000 | 25.00000 | -4.99980 | .01570 | .00030 |
| 1.299 | -.381 | .00910 | .01250 | -.00310 | .00000 | 25.00000 | -5.17730 | .01000 | .00480 |
| 1.296 | 2.284 | .02580 | .01540 | -.00600 | .00000 | 25.00000 | -5.18580 | .01570 | .00480 |
| 1.294 | 4.753 | .04410 | .01540 | -.00600 | .00000 | 25.00000 | -5.18580 | .01570 | .00480 |
| 1.293 | 6.872 | .06050 | .01250 | -.00310 | .00000 | 25.00000 | -5.18580 | .01000 | .00480 |
| 1.294 | 7.890 | .06420 | .01250 | -.00310 | .00000 | 25.00000 | -5.18580 | .01000 | .00480 |
| 1.294 | 10.031 | .06710 | .01250 | -.00310 | .00000 | 25.00000 | -5.18580 | .01000 | .00480 |
| 1.289 | 12.008 | .06080 | .01250 | -.00310 | .01000 | 25.00000 | -5.18580 | .01570 | .00980 |
| 1.289 | 15.076 | .05620 | .01780 | -.00850 | .00000 | 25.00000 | -5.18580 | .01570 | .00000 |
| 1.294 | GRADIENT | .00681 | .00057 | -.00057 | .00000 | .00000 | .00168 | .00112 | .00000 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

(C2F066) (16 JUL 77)

AMES 118-1-11 0A145A 01

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = -5.000
RN/L = 5.000

RUN NO. 373/ 0 RN/L = 4.88 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | AIL-1B | AIL-0B |
|-------|----------|---------|--------|---------|---------|----------|----------|--------|---------|---------|
| 1.407 | -5.316 | -.02900 | .01540 | -.00500 | .01000 | 25.00000 | -5.08430 | .01570 | -.00480 | -.00720 |
| 1.414 | -1.158 | .01230 | .01320 | -.00810 | .01000 | 25.00000 | -5.08430 | .01150 | -.00480 | -.01150 |
| 1.413 | 2.288 | .01880 | .01040 | -.00530 | .01000 | 25.00000 | -5.08430 | .00570 | -.00480 | -.00570 |
| 1.412 | 4.793 | .04590 | .01320 | -.00810 | .01000 | 25.00000 | -5.08430 | .01150 | -.00480 | -.01150 |
| 1.409 | 6.848 | .05980 | .01540 | -.00600 | .01000 | 25.00000 | -5.08430 | .01570 | -.00480 | -.00720 |
| 1.407 | 7.896 | .06230 | .01540 | -.00600 | .01000 | 25.00000 | -5.07590 | .01570 | -.00480 | -.00720 |
| 1.403 | 10.038 | .05930 | .01540 | -.00500 | .01000 | 25.00000 | -5.06740 | .01570 | -.00480 | -.00720 |
| 1.398 | 12.044 | .05800 | .01500 | -.00560 | .01000 | 25.00000 | -5.06740 | .01000 | -.00980 | -.00150 |
| 1.393 | 15.113 | .05720 | .01280 | -.00770 | .01000 | 25.00000 | -5.05900 | .00570 | -.00980 | -.00570 |
| | GRADIENT | .00680 | .00000 | -.00000 | -.00000 | .00000 | .00000 | .00001 | .00000 | -.00001 |

AMES 118-1-11 0A145A 01

(C2F067) (16 JUL 77)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

ALPHA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = -5.000
RN/L = 5.000

RUN NO. 327/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | AIL-1B | AIL-0B |
|------|----------|---------|--------|---------|---------|----------|----------|--------|---------|---------|
| .597 | -6.035 | 5.22580 | .01830 | -.00810 | .01000 | 25.00000 | -5.10970 | .02500 | -.00470 | -.01150 |
| .596 | -1.878 | 5.20020 | .01830 | -.00810 | .01000 | 25.00000 | -5.10970 | .02500 | -.00470 | -.01150 |
| .597 | .828 | 5.13480 | .01830 | -.00810 | .01000 | 25.00000 | -5.11810 | .02500 | -.00470 | -.01150 |
| .597 | .042 | 4.98950 | .01830 | -.00810 | .01000 | 25.00000 | -5.11810 | .02500 | -.00470 | -.01150 |
| .596 | .433 | 5.14750 | .01830 | -.00810 | .01000 | 25.00000 | -5.11810 | .02500 | -.00470 | -.01150 |
| .596 | .939 | 5.21720 | .01830 | -.00810 | .01000 | 25.00000 | -5.11810 | .02500 | -.00470 | -.01150 |
| .596 | 2.032 | 5.27050 | .01830 | -.00810 | .01000 | 25.00000 | -5.11810 | .02500 | -.00470 | -.01150 |
| .596 | 3.092 | 5.27240 | .01830 | -.00810 | .01000 | 25.00000 | -5.11810 | .02500 | -.00470 | -.01150 |
| .596 | 4.133 | 5.25370 | .01830 | -.00810 | .01000 | 25.00000 | -5.11810 | .02500 | -.00470 | -.01150 |
| .596 | 6.186 | 5.23490 | .01830 | -.00810 | .01000 | 25.00000 | -5.11810 | .02500 | -.00470 | -.01150 |
| | GRADIENT | .02634 | .00000 | -.00000 | -.00186 | -.00000 | -.00086 | .00000 | .00000 | .00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(CF067) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8100 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = -5.000
 RN/L = 5.000

RUN NO. 348/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | AIL-1B | AIL-OB |
|------|----------|---------|---------|---------|---------|----------|----------|---------|---------|--------|
| .798 | -6.086 | 5.30650 | .01720 | .00150 | .02000 | 25.00000 | -5.08430 | .02010 | .00030 | .00280 |
| .799 | -1.873 | 5.27240 | .01720 | .00150 | .01000 | 25.00000 | -5.09280 | .02010 | .00030 | .00280 |
| .798 | -.799 | 5.26680 | .01720 | .00150 | .01000 | 25.00000 | -5.10120 | .02010 | .00030 | .00280 |
| .799 | .046 | 5.09110 | .01720 | .00150 | .01000 | 25.00000 | -5.10120 | .02010 | .00030 | .00280 |
| .799 | .461 | 5.24290 | .01720 | .00150 | .01000 | 25.00000 | -5.10120 | .02010 | .00030 | .00280 |
| .798 | 1.022 | 5.32120 | .01720 | .00150 | .01000 | 25.00000 | -5.10120 | .02010 | .00030 | .00280 |
| .800 | 2.083 | 5.33930 | .01720 | .00150 | .00000 | 25.00000 | -5.10970 | .02010 | .00030 | .00280 |
| .799 | 3.148 | 5.33250 | .01460 | -.00100 | .00000 | 25.00000 | -5.10970 | .01500 | -.00480 | .00280 |
| .799 | 4.189 | 5.31000 | .01460 | -.00100 | .00000 | 25.00000 | -5.10970 | .01500 | -.00480 | .00280 |
| .796 | 6.267 | 5.32690 | .01460 | -.00100 | .00000 | 25.00000 | -5.11810 | .01500 | -.00480 | .00280 |
| | GRADIENT | .02078 | -.00048 | -.00046 | -.00221 | .00000 | -.00273 | -.00094 | -.00094 | .00000 |

RUN NO. 385/ 0 RN/L = 5.06 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | AIL-1B | AIL-OB |
|------|----------|---------|---------|---------|--------|----------|----------|---------|---------|---------|
| .901 | -6.114 | 5.06360 | .01040 | -.00530 | .02000 | 25.00000 | -5.20270 | .01500 | -.00480 | -.00570 |
| .903 | -1.973 | 5.06700 | .01040 | -.00530 | .02000 | 25.00000 | -5.20270 | .01500 | -.00480 | -.00570 |
| .902 | -.920 | 5.03730 | .00750 | -.00240 | .02000 | 25.00000 | -5.21300 | .01500 | -.00480 | .00000 |
| .903 | .117 | 4.97640 | .00750 | -.00240 | .02000 | 25.00000 | -5.20270 | .01500 | -.00480 | .00000 |
| .902 | .665 | 4.97160 | .00750 | -.00240 | .02000 | 25.00000 | -5.22330 | .01500 | -.00480 | .00000 |
| .902 | 1.172 | 5.01610 | .00500 | -.00500 | .02000 | 25.00000 | -5.23360 | .00990 | -.00990 | .00000 |
| .900 | 2.251 | 4.99240 | .00780 | -.00780 | .02000 | 25.00000 | -5.25420 | .00990 | -.00990 | -.00570 |
| .901 | 3.304 | 4.97080 | .01040 | -.00530 | .02000 | 25.00000 | -5.24390 | .01500 | -.00480 | -.00570 |
| .901 | 4.351 | 4.94790 | .00750 | -.00240 | .02000 | 25.00000 | -5.26460 | .01500 | -.00480 | .00000 |
| .899 | 6.428 | 4.90760 | .00780 | -.00780 | .02000 | 25.00000 | -5.26460 | .00990 | -.00990 | -.00570 |
| | GRADIENT | -.01548 | -.00008 | -.00011 | .00000 | .00000 | -.01016 | -.00019 | -.00019 | -.00004 |

RUN NO. 412/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | AIL-1B | AIL-OB |
|------|----------|---------|--------|---------|---------|----------|----------|--------|---------|---------|
| .951 | -6.107 | 5.29500 | .02200 | -.00840 | .01940 | 25.00000 | -5.34350 | .02990 | -.01970 | .00280 |
| .950 | -1.939 | 5.26480 | .02200 | -.00840 | .01940 | 25.00000 | -5.35850 | .02990 | -.01970 | .00280 |
| .950 | -.900 | 5.24090 | .02420 | -.00630 | .01940 | 25.00000 | -5.36600 | .02990 | -.01970 | .00700 |
| .950 | .046 | 5.19790 | .02420 | -.00630 | .01940 | 25.00000 | -5.36600 | .02990 | -.01970 | .00280 |
| .951 | .587 | 5.36710 | .02200 | -.00840 | .00970 | 25.00000 | -5.37350 | .02990 | -.01970 | .00280 |
| .951 | 1.105 | 5.32610 | .02200 | -.00840 | .00970 | 25.00000 | -5.37350 | .02990 | -.01970 | .00280 |
| .950 | 2.163 | 5.34180 | .02200 | -.00840 | .00970 | 25.00000 | -5.38100 | .02990 | -.01970 | .00280 |
| .950 | 3.206 | 5.31830 | .02200 | -.00840 | .00970 | 25.00000 | -5.38100 | .02990 | -.01970 | .00280 |
| .950 | 4.247 | 5.31240 | .02490 | -.01130 | .00970 | 25.00000 | -5.38100 | .02000 | -.01970 | -.00300 |
| .950 | 6.325 | 5.30180 | .02490 | -.01130 | .00970 | 25.00000 | -5.39600 | .02000 | -.01970 | -.00300 |
| | GRADIENT | .01395 | .00009 | -.00052 | -.00193 | .00000 | -.00369 | .00000 | .00000 | -.00103 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPOBRK = 25.000 RUDDER = -5.000
RN/L = 5.000

RUN NO. 359/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|---------|--------|---------|---------|----------|----------|--------|--------|--------|---------|
| 1.100 | -6.081 | 5.16150 | .01470 | .00400 | .02000 | 25.00000 | -5.07590 | .01510 | .01420 | .00520 | .00280 |
| 1.100 | -1.945 | 5.13420 | .01390 | .00900 | .02000 | 25.00000 | -5.08430 | .01510 | .01280 | .00520 | .01280 |
| 1.099 | -.905 | 5.11580 | .01610 | .01110 | .02000 | 25.00000 | -5.08430 | .01510 | .01700 | .00520 | .01700 |
| 1.100 | .168 | 5.08450 | .01180 | .00690 | .02000 | 25.00000 | -5.09280 | .01510 | .00850 | .00520 | .00850 |
| 1.101 | .674 | 5.10720 | .01180 | .00690 | .02000 | 25.00000 | -5.09280 | .01510 | .00850 | .00520 | .00850 |
| 1.100 | 1.182 | 5.13250 | .01680 | .00610 | .02000 | 25.00000 | -5.10120 | .01510 | .01850 | .00520 | .00700 |
| 1.101 | 2.224 | 5.11790 | .01890 | .00830 | .02000 | 25.00000 | -5.10120 | .01510 | .02270 | .00520 | .01130 |
| 1.100 | 3.284 | 5.10330 | .01260 | .00190 | .01000 | 25.00000 | -5.10970 | .01510 | .01000 | .00520 | .00150 |
| 1.100 | 4.302 | 5.09150 | .01470 | .00400 | .01000 | 25.00000 | -5.12660 | .01510 | .01420 | .00520 | .00280 |
| 1.100 | 6.367 | 5.06400 | .01470 | .00400 | .00000 | 25.00000 | -5.12660 | .01510 | .01420 | .00520 | .00280 |
| 1.100 | GRADIENT | -.00404 | .00013 | -.00109 | -.00174 | .00000 | -.00407 | .00000 | .00024 | .00000 | -.00219 |

RUN NO. 365/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|---------|--------|---------|--------|----------|----------|---------|--------|---------|--------|
| 1.199 | -6.167 | 5.25820 | .01910 | -.00890 | .01000 | 25.00000 | -5.07590 | .01510 | .02300 | .00520 | .02300 |
| 1.201 | -2.034 | 5.25950 | .01620 | -.00600 | .01000 | 25.00000 | -5.09280 | .01510 | .01720 | .00520 | .01720 |
| 1.199 | -.984 | 5.25580 | .01620 | -.00600 | .01000 | 25.00000 | -5.10120 | .01510 | .01720 | .00520 | .01720 |
| 1.199 | .023 | 5.13070 | .01330 | -.00310 | .01000 | 25.00000 | -5.10970 | .01510 | .01150 | .00520 | .01150 |
| 1.201 | .699 | 5.14310 | .01330 | -.00310 | .01000 | 25.00000 | -5.10970 | .01510 | .01150 | .00520 | .01150 |
| 1.199 | 1.159 | 5.09510 | .01620 | -.00600 | .01000 | 25.00000 | -5.10970 | .01510 | .01720 | .00520 | .01720 |
| 1.199 | 2.208 | 5.06480 | .01830 | -.00390 | .01000 | 25.00000 | -5.11810 | .01510 | .02150 | .00520 | .01300 |
| 1.200 | 3.253 | 5.04590 | .01580 | -.00640 | .01000 | 25.00000 | -5.12660 | .01000 | .02150 | .00010 | .01300 |
| 1.199 | 4.290 | 5.03420 | .01910 | -.00890 | .00000 | 25.00000 | -5.13500 | .01510 | .02300 | .00520 | .02300 |
| 1.199 | 6.361 | 5.01130 | .00023 | -.00002 | .00000 | .00000 | -.00453 | -.00052 | .00798 | -.00052 | .00047 |
| 1.196 | GRADIENT | -.03919 | .00023 | -.00002 | .00000 | .00000 | -.00453 | -.00052 | .00798 | -.00052 | .00047 |

RUN NO. 376/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|---------|---------|---------|--------|----------|----------|--------|--------|---------|--------|
| 1.299 | -6.095 | 4.95040 | .01820 | -.00890 | .00000 | 25.00000 | -5.05050 | .01500 | .02150 | .00480 | .01300 |
| 1.301 | -1.950 | 4.93580 | .01780 | -.00850 | .00000 | 25.00000 | -5.05900 | .02000 | .01570 | .00980 | .00720 |
| 1.299 | -.898 | 4.86390 | .01540 | -.00560 | .00000 | 25.00000 | -5.06740 | .01500 | .01570 | .00480 | .00720 |
| 1.297 | .149 | 4.87040 | .01500 | -.00560 | .00000 | 25.00000 | -5.06740 | .02000 | .01000 | .00980 | .00150 |
| 1.296 | .656 | 4.87200 | .01500 | -.00560 | .00000 | 25.00000 | -5.06740 | .02000 | .01000 | .00980 | .00150 |
| 1.297 | 1.194 | 4.84860 | .01280 | -.00770 | .00000 | 25.00000 | -5.06740 | .02000 | .00570 | .00980 | .00570 |
| 1.297 | 2.257 | 4.82200 | .01280 | -.00770 | .00000 | 25.00000 | -5.06740 | .02000 | .00570 | .00980 | .00570 |
| 1.297 | 3.313 | 4.80230 | .01280 | -.00770 | .00000 | 25.00000 | -5.05900 | .02000 | .00570 | .00980 | .00570 |
| 1.296 | 4.356 | 4.78890 | .01280 | -.00770 | .00000 | 25.00000 | -5.05900 | .02000 | .00570 | .00980 | .00570 |
| 1.296 | 6.423 | 4.76200 | .01250 | -.00310 | .00000 | 25.00000 | -5.04210 | .01500 | .01000 | .00480 | .00150 |
| 1.294 | GRADIENT | -.02100 | -.00077 | -.00013 | .00000 | .00000 | .00062 | .00033 | .00184 | -.00033 | .00005 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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(C2F067) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

ALPHA =
AILRON =
SPOBRK =
RN/L =

5.000
.000
25.000
5.000

ELEVON = .000
BDFLAP = .000
RUDDER = -5.000

RUN NO. 374/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|---------|--------|---------|--------|----------|----------|---------|--------|---------|---------|
| 1.410 | -6.161 | 5.02650 | .01780 | -.00850 | .01000 | 25.00000 | -5.14350 | .02000 | .01570 | -.00980 | -.00720 |
| 1.409 | -2.007 | 5.02410 | .01780 | -.00850 | .01000 | 25.00000 | -5.12660 | .02000 | .01570 | -.00980 | -.00720 |
| 1.405 | -.947 | 5.02090 | .01820 | -.00890 | .01000 | 25.00000 | -5.13500 | .01500 | .02150 | -.00480 | -.01300 |
| 1.405 | .107 | 4.99290 | .01820 | -.00890 | .01000 | 25.00000 | -5.14350 | .01500 | .02150 | -.00480 | -.01300 |
| 1.404 | .674 | 4.99060 | .01820 | -.00890 | .01000 | 25.00000 | -5.13500 | .01500 | .02150 | -.00480 | -.01300 |
| 1.403 | 1.187 | 4.98150 | .01820 | -.00890 | .01000 | 25.00000 | -5.13500 | .01500 | .02150 | -.00480 | -.01300 |
| 1.402 | 2.248 | 4.91680 | .01820 | -.00890 | .01000 | 25.00000 | -5.13500 | .01500 | .02150 | -.00480 | -.01300 |
| 1.403 | 3.304 | 4.89270 | .01820 | -.00890 | .01000 | 25.00000 | -5.05050 | .01500 | .02150 | -.00480 | -.01300 |
| 1.402 | 4.355 | 4.87330 | .01820 | -.00890 | .01000 | 25.00000 | -4.98290 | .01500 | .02150 | -.00480 | -.01300 |
| 1.400 | 6.445 | 4.84500 | .01820 | -.00890 | .01000 | 25.00000 | .01096 | -.00049 | .00057 | -.00049 | -.00057 |
| | GRADIENT | -.02674 | .00004 | -.00004 | .00000 | .00000 | | | | | |

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

ALPHA =
AILRON =
SPOBRK =
RN/L =

5.000
.000
25.000
5.000

ELEVON = .000
BDFLAP = .000
RUDDER = -22.800

RUN NO. 328/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|--------|---------|--------|----------|-----------|--------|--------|---------|---------|
| .597 | -6.007 | 5.23340 | .01830 | -.00810 | .00000 | 25.00000 | -22.13600 | .02500 | .01150 | -.00470 | -.01150 |
| .597 | -1.850 | 5.20650 | .01830 | -.00810 | .00000 | 25.00000 | -22.12800 | .02500 | .01150 | -.00470 | -.01150 |
| .597 | -.803 | 5.13550 | .01830 | -.00810 | .00000 | 25.00000 | -22.11900 | .02500 | .01150 | -.00470 | -.01150 |
| .598 | .050 | 4.98170 | .01580 | -.00560 | .00000 | 25.00000 | -22.11100 | .02010 | .01150 | -.00030 | -.01150 |
| .598 | .456 | 5.13650 | .01580 | -.00560 | .00000 | 25.00000 | -22.09400 | .02010 | .01150 | -.00030 | -.01150 |
| .598 | .971 | 5.19770 | .01580 | -.00560 | .00000 | 25.00000 | -22.08500 | .02010 | .01150 | -.00030 | -.01150 |
| .597 | 2.065 | 5.24120 | .01580 | -.00560 | .00000 | 25.00000 | -22.08500 | .02010 | .01150 | -.00030 | -.01150 |
| .598 | 3.126 | 5.23990 | .01580 | -.00560 | .00000 | 25.00000 | -22.07700 | .02010 | .01150 | -.00030 | -.01150 |
| .598 | 4.157 | 5.21990 | .02070 | -.01050 | .00000 | 25.00000 | -22.06800 | .03000 | .01150 | -.00960 | -.01150 |
| .598 | 6.208 | 5.19770 | .01580 | -.00560 | .00000 | 25.00000 | -22.06800 | .02010 | .01150 | -.00030 | -.01150 |
| | GRADIENT | .01903 | .00013 | -.00013 | .00000 | .00000 | | | | | |

AMES 118-1-11 OAI45A 01

(C2F068) (16 JUL 77)

OAI45 TABULATED FORCE DATA

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA =
 AILRON =
 SPOBRK =
 RUDDER =
 ELEVON =
 BOFLAP =
 RUDDER =
 5.000
 .000
 25.000
 5.000
 .000
 .000
 -22.800

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | AIL-1B | ELV-0B | AIL-0B |
|------|----------|---------|--------|---------|---------|----------|-----------|--------|---------|--------|---------|
| .900 | -6.085 | 5.25130 | .02040 | -.00680 | .02000 | 25.00000 | -22.15300 | .01500 | -.00480 | .02570 | -.00870 |
| .901 | -1.905 | 5.21260 | .02040 | -.00680 | .00000 | 25.00000 | -22.16200 | .01500 | -.00480 | .02570 | -.00870 |
| .900 | -.868 | 5.18300 | .02280 | -.00920 | .00000 | 25.00000 | -22.14500 | .02000 | -.00980 | .02570 | -.00870 |
| .901 | .058 | 5.13740 | .02280 | -.00920 | .00000 | 25.00000 | -21.76100 | .02000 | -.00980 | .02570 | -.00870 |
| .900 | .586 | 5.32690 | .02280 | -.00920 | .00000 | 25.00000 | -22.08500 | .02000 | -.00980 | .02570 | -.00870 |
| .902 | 1.111 | 5.29590 | .02280 | -.00920 | -.01010 | 25.00000 | -22.07700 | .02000 | -.00980 | .02570 | -.00870 |
| .899 | 2.182 | 5.27590 | .02280 | -.00920 | -.01010 | 25.00000 | -22.09400 | .02000 | -.00980 | .02570 | -.00870 |
| .898 | 3.222 | 5.24750 | .02280 | -.00920 | .01000 | 25.00000 | -22.11900 | .02000 | -.00980 | .02570 | -.00870 |
| .897 | 4.264 | 5.24280 | .02280 | -.00920 | .00000 | 25.00000 | -21.82100 | .02000 | -.00980 | .02570 | -.00870 |
| .896 | 6.339 | 5.23230 | .02530 | -.01170 | .01000 | 25.00000 | -22.16200 | .02490 | -.01470 | .02570 | -.00870 |
| | GRADIENT | .01072 | .00024 | -.00024 | .00033 | .00000 | .02583 | .00050 | -.00050 | .00000 | -.00000 |

RUN NO. 389/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | AIL-1B | ELV-0B | AIL-0B |
|-------|----------|---------|---------|---------|---------|----------|-----------|---------|---------|---------|---------|
| 1.201 | -6.039 | 5.11530 | .01620 | -.00600 | .01000 | 25.00000 | -22.17900 | .01510 | .00520 | .01720 | -.01720 |
| 1.200 | -1.911 | 5.09570 | .01330 | -.00310 | .01000 | 25.00000 | -22.19600 | .01510 | .00520 | .01150 | -.01150 |
| 1.199 | -.866 | 5.08310 | .01330 | -.00310 | .01000 | 25.00000 | -22.18800 | .01510 | .00520 | .01150 | -.01150 |
| 1.198 | .204 | 5.09950 | .01330 | -.00310 | .00000 | 25.00000 | -22.18800 | .01510 | .00520 | .01150 | -.01150 |
| 1.200 | .675 | 5.12120 | .01330 | -.00310 | .00000 | 25.00000 | -22.19600 | .01020 | .01020 | .01150 | -.01150 |
| 1.186 | 1.186 | 5.11050 | .01080 | -.00060 | .00000 | 25.00000 | -22.19600 | .01000 | .00010 | .00570 | -.00570 |
| 1.201 | 2.228 | 5.08540 | .00790 | -.00280 | .00000 | 25.00000 | -22.20500 | .01000 | .00010 | .01000 | -.00150 |
| 1.201 | 3.267 | 5.06950 | .01000 | -.00070 | .00000 | 25.00000 | -22.20500 | .01000 | .00010 | .00570 | -.00570 |
| 1.199 | 4.303 | 5.05590 | .00790 | -.00280 | .00000 | 25.00000 | -22.21300 | .01000 | .00010 | .00570 | -.00570 |
| 1.197 | 6.371 | 5.03490 | .00790 | -.00280 | .00000 | 25.00000 | -22.21300 | .01000 | .00010 | .00570 | -.00570 |
| 1.197 | GRADIENT | -.00605 | -.00100 | .00022 | -.00168 | .00000 | -.00236 | -.00109 | -.00107 | -.00093 | .00153 |

RUN NO. 366/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 375/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | AIL-1B | ELV-0B | AIL-0B |
|-------|----------|---------|---------|---------|---------|----------|-----------|--------|---------|---------|---------|
| 1.402 | -6.101 | 4.86870 | .01610 | -.01100 | .01000 | 25.00000 | -22.17900 | .01500 | -.00480 | .01720 | -.01720 |
| 1.408 | -1.935 | 4.86390 | .01610 | -.01100 | .01000 | 25.00000 | -22.18800 | .01500 | -.00480 | .01720 | -.01720 |
| 1.407 | -.888 | 4.85180 | .01610 | -.01100 | .00000 | 25.00000 | -22.18800 | .01500 | -.00480 | .01720 | -.01720 |
| 1.405 | .190 | 4.86860 | .01610 | -.01100 | .00000 | 25.00000 | -22.18800 | .01500 | -.00480 | .01720 | -.01720 |
| 1.404 | .673 | 4.85820 | .01610 | -.01100 | .01000 | 25.00000 | -22.18800 | .01500 | -.00480 | .01720 | -.01720 |
| 1.404 | 1.211 | 4.83730 | .01610 | -.01100 | .01000 | 25.00000 | -22.18800 | .01500 | -.00480 | .01720 | -.01720 |
| 1.403 | 2.269 | 4.88070 | .01610 | -.01100 | .01000 | 25.00000 | -22.18800 | .01500 | -.00480 | .01720 | -.01720 |
| 1.402 | 3.318 | 4.87970 | .01610 | -.01100 | .00000 | 25.00000 | -22.19600 | .01500 | -.00480 | .01720 | -.01720 |
| 1.402 | 4.370 | 4.86200 | .01210 | -.00280 | .00000 | 25.00000 | -22.19600 | .02000 | -.00980 | .00430 | .00430 |
| 1.399 | 6.454 | 4.83600 | .01210 | -.00280 | .00000 | 25.00000 | -22.18800 | .02000 | -.00980 | .00430 | .00430 |
| | GRADIENT | .00219 | -.00041 | .00085 | -.00142 | .00000 | -.00138 | .00052 | -.00052 | -.00133 | .00222 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

(C2F069) (16 JUL 77)

ANES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 BETA = 5.000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPOBRK = 25.000
 RN/L = 5.000

RUN NO. 322/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|---------|---------|---------|--------|---------|---------|----------|--------|--------|---------|---------|
| .598 | -15.372 | .01170 | 5.29430 | .01500 | -.00060 | .00000 | 25.00000 | .02010 | .01000 | .00030 | -.00150 |
| .597 | -10.323 | -.01030 | 5.28840 | .01500 | -.00060 | .00000 | 25.00000 | .02010 | .01000 | .00030 | -.00150 |
| .598 | -5.118 | -.00780 | 5.28350 | .01750 | -.00310 | .00000 | 25.00000 | .02500 | .01000 | -.00470 | -.00150 |
| .597 | -2.541 | -.00670 | 5.28120 | .01500 | -.00060 | .00000 | 25.00000 | .02010 | .01000 | .00030 | -.00150 |
| .597 | .077 | -.00570 | 5.28020 | .01500 | -.00060 | .01000 | 25.00000 | .02010 | .01000 | .00030 | -.00150 |
| .597 | 2.524 | -.00550 | 5.27810 | .01500 | -.00060 | .00000 | 25.00000 | .02010 | .01000 | .00030 | -.00150 |
| .597 | 4.823 | -.00420 | 5.27070 | .01500 | -.00060 | .00000 | 25.00000 | .02010 | .01000 | .00030 | -.00150 |
| .597 | 9.601 | -.00260 | 5.26420 | .01500 | -.00060 | .00000 | 25.00000 | .02010 | .01000 | .00030 | -.00150 |
| .597 | 14.596 | -.00030 | 5.25920 | .01500 | -.00060 | .00000 | 25.00000 | .02010 | .01000 | .00030 | -.00150 |
| .597 | 18.271 | .00210 | 5.25350 | .01500 | -.00060 | .00000 | 25.00000 | .02010 | .01000 | .00030 | -.00150 |
| .597 | 23.109 | .00019 | 5.00074 | .00000 | -.00000 | -.00038 | .00000 | .00000 | .00000 | .00000 | -.00000 |

RUN NO. 349/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|--------|----------|---------|--------|---------|----------|--------|--------|---------|--------|
| .901 | -15.347 | .06630 | 5.36250 | .01180 | .00180 | .02000 | 25.00000 | .01500 | .00850 | -.00480 | .00850 |
| .903 | -10.323 | .06940 | 5.35780 | .01180 | .00180 | .02000 | 25.00000 | .01500 | .00850 | -.00480 | .00850 |
| .902 | -5.110 | .07300 | 5.35100 | .01180 | .00180 | .02000 | 25.00000 | .01500 | .00850 | -.00480 | .00850 |
| .901 | -2.522 | .07420 | 5.34850 | .01180 | .00180 | .02000 | 25.00000 | .01500 | .00850 | -.00480 | .00850 |
| .901 | .000 | .07650 | 5.34630 | .01180 | .00180 | .02000 | 25.00000 | .01500 | .00850 | -.00480 | .00850 |
| .901 | 2.491 | .07750 | 5.34680 | .01180 | .00180 | .02000 | 25.00000 | .01500 | .00850 | -.00480 | .00850 |
| .902 | 4.873 | .07820 | 5.34570 | .01180 | .00180 | .02000 | 25.00000 | .01500 | .00850 | -.00480 | .00850 |
| .902 | 9.576 | .08000 | 5.33910 | .01180 | .00180 | .02000 | 25.00000 | .01500 | .00850 | -.00480 | .00850 |
| .901 | 14.614 | .08250 | 5.33260 | .01180 | .00180 | .02000 | 25.00000 | .01500 | .00850 | -.00480 | .00850 |
| .901 | 18.271 | .08450 | 5.32870 | .01430 | .00440 | .02000 | 25.00000 | .02010 | .00850 | .00030 | .00850 |
| .901 | 22.873 | .08730 | 5.32350 | .01430 | .00440 | .01000 | 25.00000 | .02010 | .00850 | .00030 | .00850 |
| .901 | GRADIENT | .00053 | -.000040 | -.00000 | .00000 | -.00000 | .00000 | .00000 | .00000 | -.00000 | .00000 |

(C2F070) (08 JUL 77)

AMES 118-1-11 OAI145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = .000 RUDDER = .000
RN/L = 5.000

RUN NO. 644/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|---------|---------|--------|---------|---------|---------|---------|---------|
| .598 | -5.071 | -.03050 | .00710 | .00220 | .00970 | .00000 | -.12310 | .01000 | .00430 | .00010 | .00430 |
| .599 | -.101 | .00390 | .00710 | .00220 | .00970 | .00000 | -.12310 | .01000 | .00430 | .00010 | .00430 |
| .597 | 2.413 | .00870 | .00710 | .00220 | .00970 | .00000 | -.12310 | .01000 | .00430 | .00010 | .00430 |
| .597 | 4.970 | .03520 | .00710 | .00220 | .00970 | .00000 | -.12310 | .01000 | .00430 | .00010 | .00430 |
| .596 | 6.994 | .02900 | .00750 | -.00240 | .00970 | .00000 | -.12310 | .01500 | .00000 | -.00480 | .00000 |
| .596 | 8.028 | .02710 | .00750 | -.00240 | .00970 | .00000 | -.12310 | .01500 | .00000 | -.00480 | .00000 |
| .595 | 10.099 | .02960 | .01390 | .00400 | .00970 | .00000 | -.12310 | .01500 | .01280 | -.00480 | .01280 |
| .595 | 12.126 | .03290 | .01180 | .00180 | .00970 | .00000 | -.12310 | .01500 | .00850 | -.00480 | .00850 |
| .595 | 15.126 | .04560 | .01680 | .00110 | .00970 | .00000 | -.12310 | .01500 | .01850 | -.00480 | .00700 |
| .596 | GRADIENT | .00618 | -.00000 | -.00000 | -.00000 | .00000 | .00000 | -.00000 | -.00000 | .00000 | -.00000 |

RUN NO. 659/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|---------|--------|--------|---------|---------|---------|---------|---------|
| .801 | -5.027 | -.03520 | .01710 | -.00350 | .00970 | .00000 | -.12310 | .02000 | .01430 | -.00980 | .00270 |
| .800 | -.106 | .00370 | .01500 | -.00560 | .01940 | .00000 | -.11640 | .02000 | .01000 | -.00980 | .00150 |
| .799 | 2.441 | .00940 | .01500 | -.00560 | .01940 | .00000 | -.10960 | .02000 | .01000 | -.00980 | .00150 |
| .796 | 4.977 | .03590 | .01290 | -.00780 | .01940 | .00000 | -.10960 | .02000 | .00580 | -.00980 | .00580 |
| .798 | 7.061 | .02520 | .00270 | -.01790 | .01940 | .00000 | -.10960 | .02000 | -.01450 | -.00980 | .02600 |
| .799 | 8.082 | .02700 | .01000 | -.00490 | .00970 | .00000 | -.10290 | .02000 | .00000 | -.00980 | .00000 |
| .799 | 10.130 | .02550 | .01290 | -.00780 | .01940 | .00000 | -.10290 | .02000 | .00580 | -.00980 | .00580 |
| .799 | 12.149 | .02790 | .01290 | -.00780 | .00970 | .00000 | -.08940 | .02000 | .00580 | -.00980 | .00580 |
| .799 | 15.201 | .04480 | .01290 | -.00780 | .00970 | .00000 | -.09620 | .02000 | .00580 | -.00980 | .00580 |
| .800 | GRADIENT | .00633 | -.00041 | -.00043 | .00000 | .00000 | .00134 | -.00000 | -.00083 | .00000 | -.00085 |

RUN NO. 632/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|--------|---------|---------|--------|---------|---------|---------|---------|---------|
| .900 | -5.098 | -.02890 | .02170 | -.00390 | .00970 | .00000 | -.10290 | .02490 | .01850 | -.01470 | .00700 |
| .899 | -.073 | .00540 | .02460 | -.00670 | .00970 | .00000 | -.10290 | .02490 | .02430 | -.01470 | .00120 |
| .899 | 2.444 | .01120 | .02460 | -.00670 | .00970 | .00000 | -.10290 | .02490 | .02430 | -.01470 | .00120 |
| .895 | 5.002 | .03930 | .02460 | -.00670 | .01940 | .00000 | -.10290 | .02490 | .02430 | -.01470 | .00120 |
| .901 | 7.089 | .03130 | .01960 | -.00600 | .00970 | .00000 | -.09620 | .02490 | .01430 | -.01470 | .00270 |
| .897 | 8.109 | .02900 | .01530 | -.01020 | .00970 | .00000 | -.09620 | .02490 | .00580 | -.01470 | .00580 |
| .901 | 10.136 | .03000 | .01670 | -.00310 | .00970 | .00000 | -.08940 | .02490 | .00850 | -.01470 | .00850 |
| .901 | 12.173 | .02790 | .01960 | -.00600 | .00970 | .00000 | -.08270 | .02490 | .01430 | -.01470 | .00270 |
| .900 | 15.213 | .03120 | .02170 | -.00390 | .00970 | .00000 | -.06920 | .02490 | .01850 | -.01470 | .00700 |
| .898 | GRADIENT | .00230 | .00000 | .00000 | -.00000 | .00000 | .00000 | -.00000 | -.00000 | .00000 | -.00000 |

DATE 10 MAR 80

OA145 TABULATED FORCE DATA

JAMES 118-1-11 0A143A 01

(C2F070) (08 JUL 77)

PARAMETRIC DATA

| | | | | | |
|--------|---|-------|--------|---|------|
| BETA | = | .000 | ELEVON | = | .000 |
| AILRON | = | .000 | BOFLAP | = | .000 |
| SPDBRK | = | .000 | RUDDER | = | .000 |
| RN/L | = | 5.000 | | | |

| | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|--------|
| SREF | = | 2690.0000 | SQ.FT. | YMRP | = | 1076.5800 | IN. X0 |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. Y0 |
| ZREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. Z0 |
| SCALE | = | .0500 | | | | | |

| QWAL NO | Q33/ 0 | BN/1 | GRADIENT | INTERVAL | = | -5.00/ | 5.00 |
|---------|--------|------|----------|----------|---|--------|------|
| QWAL NO | Q33/ 0 | BN/1 | GRADIENT | INTERVAL | = | -5.00/ | 5.00 |

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-0B | AIL-1B | AIL-0B |
|----------|--------|---------|---------|---------|---------|--------|---------|---------|---------|---------|
| .951 | -5.265 | -.02430 | .01790 | -.00850 | .00970 | .00000 | -.10960 | .01580 | -.00980 | -.00730 |
| .950 | -.104 | .00490 | .01610 | -.01100 | .00970 | .00000 | -.10960 | .01730 | -.00480 | -.01730 |
| .951 | 2.447 | .01400 | .01860 | -.01350 | .00970 | .00000 | -.10960 | .01730 | -.00980 | -.01730 |
| .951 | 4.941 | .03020 | .01330 | -.00820 | .00970 | .00000 | -.10960 | .01150 | -.00480 | -.01150 |
| .950 | 6.982 | .03790 | .00750 | -.00240 | .00970 | .00000 | -.10960 | .00000 | -.00480 | .00000 |
| .950 | 8.013 | .03500 | .01610 | -.01100 | .00970 | .00000 | -.10290 | .01730 | -.00480 | -.01730 |
| .951 | 10.043 | .03280 | .01570 | -.01060 | .00970 | .00000 | -.10290 | .01150 | -.00980 | -.01150 |
| .949 | 12.030 | .02970 | .01790 | -.00850 | .00970 | .00000 | -.10290 | .01580 | -.00980 | -.00730 |
| .950 | 15.010 | .02760 | .01860 | -.01350 | .00970 | .00000 | -.09620 | .01730 | -.00980 | -.01730 |
| GRADIENT | | .00501 | -.00055 | .00055 | -.00000 | .00000 | .00132 | -.00115 | -.00001 | -.00115 |

[illegible][illegible]

| | | | | | |
|--|------|---|------|----------------------------|------|
| | COSY | 9 | 4.87 | GRADIENT INTERVAL = -5.00/ | 5.00 |
|--|------|---|------|----------------------------|------|

| MACH | ALPHA | BETA | ELEVON | AILIRON | BDFLAP | SPDBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|---------|--------|---------|--------|--------|---------|---------|--------|--------|---------|
| 1.203 | -5.074 | -0.5150 | .01720 | .00070 | .00970 | .00000 | -.10290 | .01000 | .02430 | .00010 | .00120 |
| 1.201 | -.068 | -.01510 | .00710 | .00220 | .00970 | .00000 | -.10290 | .01000 | .00430 | .00010 | .00430 |
| 1.201 | 2.489 | .00140 | .01240 | -.00360 | .00970 | .00000 | -.10290 | .01000 | .01580 | .00010 | -.00730 |
| 1.201 | 4.946 | .02410 | .01290 | -.00360 | .00970 | .00000 | -.10290 | .01000 | .01580 | .00010 | -.00730 |
| 1.199 | 7.017 | .02280 | .01290 | -.00360 | .00970 | .00000 | -.10290 | .01000 | .01580 | .00010 | -.00730 |
| 1.198 | 8.065 | .01990 | .01000 | -.00070 | .00970 | .00000 | -.10290 | .01000 | .01000 | .00010 | -.00150 |
| 1.201 | 10.011 | .02190 | .00790 | -.00280 | .00970 | .00000 | -.10290 | .01000 | .00580 | .00010 | -.00580 |
| 1.201 | 11.969 | .01280 | .00010 | .00000 | .00970 | .00000 | -.10290 | .01000 | .00000 | .00010 | .00000 |
| 1.201 | 14.954 | .00790 | .00790 | -.00280 | .00970 | .00000 | -.10290 | .01000 | .00580 | .00010 | -.00580 |
| 1.198 | GRADIENT | .00781 | .00116 | -.00116 | .00000 | .00000 | .00000 | -.00000 | .00231 | .00000 | -.00233 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

AMES 118-1-11 0A145A 01

(C2F070) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = .000 RUDDER = .000
RN/L = 5.000

RUN NO. 600/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|-------|--------|---------|---------|---------|--------|--------|---------|---------|--------|--------|
| 1.404 | -5.046 | -.04680 | .01180 | .00690 | .00970 | .00000 | -.09620 | .00850 | .00520 | .00850 |
| 1.405 | -.022 | -.00820 | .01290 | -.00270 | .01940 | .00000 | -.09620 | .00580 | .0030 | .00580 |
| 1.401 | 2.505 | .00220 | .00970 | .00470 | .01940 | .00000 | -.09620 | .00430 | .00520 | .00430 |
| 1.401 | 5.096 | .03090 | .00970 | .00470 | .01940 | .00000 | -.09620 | .00430 | .00520 | .00430 |
| 1.399 | 7.119 | .02300 | .00760 | .00260 | .02910 | .00000 | -.09620 | .00000 | .00520 | .00000 |
| 1.401 | 8.153 | .01720 | .01040 | .00030 | .01940 | .00000 | -.09620 | .00580 | .00520 | .00580 |
| 1.399 | 10.183 | .01640 | .01000 | .00010 | .01940 | .00000 | -.09620 | .00000 | .0030 | .00000 |
| 1.401 | 12.206 | .01500 | .00750 | -.00240 | .00970 | .00000 | -.09620 | .00510 | .0030 | .00510 |
| 1.399 | 15.225 | .00412 | -.00127 | .00293 | .00000 | .00000 | .00000 | -.00059 | .00194 | .00400 |

AMES 118-1-11 0A145A 01

(C2F071) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = .000 RUDDER = .000
RN/L = 5.000

RUN NO. 882/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|--------|---------|--------|---------|--------|--------|---------|--------|--------|--------|
| .597 | -5.251 | 2.05600 | .01460 | -.00020 | .00970 | .00000 | -.12310 | .00430 | .00470 | .00430 |
| .597 | -.269 | 2.13490 | .02010 | -.00050 | .00970 | .00000 | -.12310 | .01000 | .00040 | .00150 |
| .597 | 2.315 | 2.18870 | .02010 | -.00050 | .00970 | .00000 | -.12310 | .01000 | .00040 | .00150 |
| .596 | 4.945 | 2.21660 | .02010 | -.00050 | .01940 | .00000 | -.12310 | .01000 | .00040 | .00150 |
| .598 | 8.077 | 2.09970 | .02010 | -.00050 | .01940 | .00000 | -.12310 | .00580 | .00040 | .00580 |
| .597 | 10.089 | 2.11450 | .01790 | -.00270 | .01940 | .00000 | -.12310 | .01000 | .00040 | .00150 |
| .595 | 12.104 | 2.12390 | .02010 | -.00050 | .01940 | .00000 | -.12310 | .01000 | .00040 | .00150 |
| .597 | 15.112 | 2.15710 | .02010 | -.00050 | .01940 | .00000 | -.12310 | .01430 | .00040 | .00270 |
| .597 | 17.040 | 2.13010 | .02220 | .00160 | .01940 | .00000 | -.12310 | .01000 | .00040 | .00150 |
| .597 | 19.019 | 2.11130 | .02010 | -.00050 | .01940 | .00000 | -.12310 | .01000 | .00040 | .00150 |
| .595 | | .01565 | .00000 | .00000 | .00187 | .00000 | .00000 | .00000 | .00000 | .00000 |

OAI45 TABULATED FORCE DATA

AMES 118-1-11 OAI45A 01

DATE 10 MAR 80

(C2F071) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BOFLAP = .000
SPOBRK = .000 RUDDER = .000
RN/L = 5.000

RUN NO. 883/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|--------|---------|--------|--------|---------|--------|---------|---------|
| .800 | -5.269 | 2.01260 | .02010 | -.00050 | .01940 | .00000 | -.12310 | .01000 | .00040 | -.00150 |
| .800 | -.254 | 2.09710 | .02010 | -.00050 | .01940 | .00000 | -.12310 | .01000 | .00040 | -.00150 |
| .800 | 2.307 | 2.14520 | .02010 | -.00050 | .01940 | .00000 | -.12310 | .01000 | .00040 | -.00150 |
| .798 | 4.928 | 2.19600 | .02010 | -.00050 | .02910 | .00000 | -.12310 | .01000 | .00040 | -.00150 |
| .800 | 8.056 | 2.10720 | .02010 | -.00050 | .01940 | .00000 | -.10290 | .01000 | .00040 | -.00150 |
| .802 | 10.090 | 2.10820 | .02010 | -.00050 | .01940 | .00000 | -.08940 | .01000 | .00040 | -.00150 |
| .797 | 12.103 | 2.11430 | .01790 | -.00270 | .01940 | .00000 | -.11640 | .00580 | .00040 | -.00580 |
| .794 | 15.117 | 2.14480 | .01540 | -.00520 | .01940 | .00000 | -.09620 | .00580 | -.00470 | -.00580 |
| .800 | 17.088 | 2.17210 | .01750 | -.00310 | .01940 | .00000 | -.05570 | .01000 | -.00470 | -.00150 |
| .798 | 19.033 | 2.15050 | .02250 | -.00380 | .01940 | .00000 | -.08270 | .02000 | -.00470 | -.00300 |
| | GRADIENT | .01908 | .00000 | .00000 | .00188 | .00000 | .00000 | .00000 | .00000 | .00000 |

RUN NO. 884/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|---------|---------|--------|---------|---------|---------|---------|
| .900 | -5.277 | 2.07620 | .02290 | -.00340 | .01940 | .00000 | -.08940 | .01580 | .00040 | -.00730 |
| .900 | -.267 | 2.13960 | .02290 | -.00340 | .01940 | .00000 | -.08270 | .01580 | .00040 | -.00730 |
| .902 | 2.326 | 2.08860 | .02290 | -.00340 | .01940 | .00000 | -.04900 | .01430 | .00040 | -.00730 |
| .901 | 4.934 | 2.12860 | .02220 | -.00160 | .01940 | .00000 | -.04220 | .01000 | .00040 | -.00150 |
| .899 | 8.069 | 2.09200 | .02010 | -.00050 | .02910 | .00000 | -.06920 | .01000 | .00040 | -.00150 |
| .901 | 10.114 | 2.08950 | .01750 | -.00310 | .02910 | .00000 | -.04220 | .01000 | .00040 | -.00150 |
| .900 | 12.150 | 2.09770 | .01960 | -.00100 | .02910 | .00000 | -.03550 | .01430 | -.00470 | -.00270 |
| .901 | 15.130 | 2.11960 | .01960 | -.00380 | .02910 | .00000 | -.05570 | .02000 | -.00470 | -.00300 |
| .901 | 17.119 | 2.13260 | .02250 | -.00380 | .02910 | .00000 | -.02870 | .01580 | -.00470 | -.00730 |
| .903 | 19.079 | 2.13050 | .02040 | -.00600 | .02910 | .00000 | -.09620 | -.00029 | .00000 | -.00192 |
| | GRADIENT | -.00210 | -.00013 | .00096 | -.00000 | .00000 | .00778 | .00000 | .00000 | .00000 |

RUN NO. 885/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|---------|--------|--------|---------|---------|---------|---------|
| .950 | -5.254 | 2.05640 | .02290 | -.00340 | .00000 | .00000 | -.10290 | .01580 | .00040 | -.00730 |
| .948 | -.303 | 2.13810 | .02290 | -.00340 | .00000 | .00000 | -.10290 | .01580 | .00040 | -.00730 |
| .951 | 2.290 | 2.07790 | .02510 | -.00130 | .00000 | .00000 | -.10290 | .02000 | .00040 | -.00150 |
| .952 | 4.944 | 2.12520 | .02010 | -.00050 | .00000 | .00000 | -.10290 | .01000 | .00040 | -.00270 |
| .952 | 8.092 | 2.09850 | .02220 | -.00160 | .00000 | .00000 | -.08270 | .01430 | .00040 | -.00150 |
| .952 | 10.143 | 2.09820 | .02010 | -.00050 | .00000 | .00000 | -.10290 | .01000 | .00040 | -.00150 |
| .950 | 12.153 | 2.10260 | .01750 | -.00310 | .00000 | .00000 | -.08940 | .01000 | -.00470 | -.00150 |
| .950 | 15.165 | 2.12900 | .01750 | -.00310 | .00000 | .00000 | -.08940 | .01000 | -.00470 | -.00150 |
| .951 | 17.120 | 2.15700 | .01750 | -.00310 | .00000 | .00000 | -.08940 | .01000 | -.00470 | -.00150 |
| .950 | 19.066 | 2.08540 | .02180 | -.00120 | .00000 | .00000 | -.08270 | .01850 | -.00470 | -.00700 |
| | GRADIENT | -.00238 | -.00054 | .00055 | .00000 | .00000 | .00000 | -.00112 | .00000 | .00110 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = .000 RUDDER = .000
RN/L = 5.000

RUN NO. 645/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-OB | ELV-IB | AIL-IB |
|------|----------|---------|--------|--------|--------|--------|---------|--------|---------|--------|---------|
| .599 | -6.190 | .08120 | .01180 | .00180 | .00970 | .00000 | -.10290 | .00850 | -.00480 | .01500 | -.00480 |
| .598 | -2.097 | -.06140 | .01390 | .00400 | .00970 | .00000 | -.10960 | .01280 | -.00480 | .01500 | -.00480 |
| .597 | -1.053 | -.09700 | .01390 | .00400 | .00970 | .00000 | -.10960 | .01280 | -.00480 | .01500 | -.00480 |
| .597 | .019 | -.11650 | .01390 | .00400 | .00970 | .00000 | -.11640 | .01280 | -.00480 | .01500 | -.00480 |
| .597 | .537 | -.12280 | .01390 | .00400 | .00970 | .00000 | -.10960 | .01280 | -.00480 | .01500 | -.00480 |
| .597 | 1.056 | -.10620 | .01390 | .00400 | .00970 | .00000 | -.11640 | .01280 | -.00480 | .01500 | -.00480 |
| .597 | 2.113 | -.10010 | .01390 | .00400 | .00970 | .00000 | -.11640 | .01280 | -.00480 | .01500 | -.00480 |
| .597 | 3.153 | -.09290 | .01390 | .00400 | .00970 | .00000 | -.11640 | .01280 | -.00480 | .01500 | -.00480 |
| .597 | 4.186 | -.08850 | .01390 | .00400 | .00970 | .00000 | -.11640 | .01280 | -.00480 | .01500 | -.00480 |
| .597 | 6.244 | -.07680 | .01390 | .00400 | .00970 | .00000 | -.11640 | .01280 | -.00480 | .01500 | -.00480 |
| .597 | GRADIENT | -.00153 | .00000 | .00000 | .00000 | .00000 | -.00132 | .00000 | -.00000 | .00000 | -.00000 |

RUN NO. 633/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-OB | ELV-IB | AIL-IB |
|------|----------|---------|---------|---------|--------|--------|---------|---------|---------|--------|---------|
| .900 | -6.258 | .09840 | .01960 | .00600 | .00970 | .00000 | -.06920 | .01430 | -.01470 | .02490 | -.01470 |
| .902 | -2.120 | -.02740 | .01750 | .00810 | .00970 | .00000 | -.07590 | .01000 | -.01470 | .02490 | -.01470 |
| .900 | -1.061 | -.05930 | .01960 | .00600 | .00970 | .00000 | -.07590 | .01430 | -.01470 | .02490 | -.01470 |
| .900 | .023 | -.07560 | .01960 | .00600 | .00970 | .00000 | -.10960 | .01430 | -.01470 | .02490 | -.01470 |
| .900 | .545 | -.07710 | .01960 | .00600 | .00970 | .00000 | -.10960 | .01430 | -.01470 | .02490 | -.01470 |
| .899 | 1.069 | -.05670 | .01750 | .00810 | .00970 | .00000 | -.11640 | .01000 | -.01470 | .02490 | -.01470 |
| .899 | 2.137 | -.05160 | .01750 | .00810 | .00970 | .00000 | -.11640 | .01000 | -.01470 | .02490 | -.01470 |
| .899 | 3.189 | -.05280 | .01750 | .00810 | .00970 | .00000 | -.11640 | .01000 | -.01470 | .02490 | -.01470 |
| .899 | 4.232 | -.05410 | .01750 | .00810 | .00970 | .00000 | -.11640 | .01000 | -.01470 | .02490 | -.01470 |
| .899 | 6.311 | -.05560 | .01750 | .00810 | .00970 | .00000 | -.11640 | .01000 | -.01470 | .02490 | -.01470 |
| .897 | GRADIENT | -.00112 | -.00023 | -.00023 | .00000 | .00000 | -.00692 | -.00047 | -.00000 | .00000 | -.00000 |

RUN NO. 626/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-OB | ELV-IB | AIL-IB |
|------|----------|---------|--------|--------|--------|--------|---------|--------|---------|--------|---------|
| .949 | -6.264 | .17330 | .01960 | .00180 | .00970 | .00000 | -.10290 | .02430 | -.00480 | .01500 | -.00480 |
| .954 | -2.114 | .07540 | .01580 | .00110 | .00970 | .00000 | -.10960 | .01850 | -.00480 | .01500 | -.00480 |
| .951 | -1.058 | -.05310 | .01680 | .00110 | .00970 | .00000 | -.10960 | .01850 | -.00480 | .01500 | -.00480 |
| .950 | .024 | -.07350 | .01680 | .00110 | .00970 | .00000 | -.10960 | .01850 | -.00480 | .01500 | -.00480 |
| .950 | .545 | -.08290 | .01680 | .00110 | .00970 | .00000 | -.10960 | .01850 | -.00480 | .01500 | -.00480 |
| .951 | 1.067 | -.06370 | .01680 | .00110 | .00970 | .00000 | -.10960 | .01850 | -.00480 | .01500 | -.00480 |
| .950 | 2.135 | -.06040 | .01680 | .00110 | .00970 | .00000 | -.10960 | .01850 | -.00480 | .01500 | -.00480 |
| .950 | 3.186 | -.06100 | .01680 | .00110 | .00970 | .00000 | -.10960 | .01850 | -.00480 | .01500 | -.00480 |
| .949 | 4.233 | -.06680 | .01680 | .00110 | .00970 | .00000 | -.10960 | .01850 | -.00480 | .01500 | -.00480 |
| .949 | 6.317 | -.07520 | .01680 | .00110 | .00970 | .00000 | -.10960 | .01850 | -.00480 | .01500 | -.00480 |
| .946 | GRADIENT | -.01383 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.00000 | .00000 | -.00000 |

DATE 10 MAR 80
OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

(C2F072) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
AILRON = .000 BOFLAP = .000
SPOBRK = .000 RUDDER = .000
RN/L = 5.000

RUN NO. 614/ 0 RN/L = 5.06 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|---------|---------|---------|--------|--------|---------|--------|---------|---------|---------|
| 1.203 | -5.264 | .07450 | .02540 | -.00750 | .00970 | .00000 | -.08940 | .01500 | .03580 | -.00480 | -.01030 |
| 1.206 | -2.118 | -.14670 | .02250 | -.00470 | .00000 | .00000 | -.08940 | .01500 | .03000 | -.00480 | -.00450 |
| 1.203 | -1.060 | -.17700 | .02250 | -.00470 | .00000 | .00000 | -.08940 | .01500 | .03000 | -.00480 | -.00450 |
| 1.203 | .023 | -.19830 | .02750 | -.00540 | .00000 | .00000 | -.08940 | .01500 | .04000 | -.00480 | -.00600 |
| 1.202 | .543 | -.20470 | .02960 | -.00330 | .00000 | .00000 | -.08940 | .01500 | .04430 | -.00480 | -.00180 |
| 1.202 | 1.066 | -.18740 | .02540 | -.00750 | .00970 | .00000 | -.08940 | .01500 | .03580 | -.00480 | -.01030 |
| 1.203 | 2.133 | -.18550 | .01900 | -.01390 | .00970 | .00000 | -.08940 | .01500 | .02300 | -.00480 | -.02300 |
| 1.203 | 3.186 | -.18410 | .01900 | -.01390 | .00970 | .00000 | -.08940 | .01500 | .02300 | -.00480 | -.02300 |
| 1.203 | 4.234 | -.18620 | .01900 | -.01390 | .00970 | .00000 | -.08940 | .01500 | .02300 | -.00480 | -.02300 |
| 1.198 | 6.321 | -.19450 | .01900 | -.01390 | .00000 | .00000 | -.09620 | .01500 | .02300 | -.00480 | -.02300 |
| | GRADIENT | -.00368 | -.00098 | -.00191 | .00203 | .00000 | -.00000 | .00000 | -.00195 | -.00000 | -.00383 |

AMES 118-1-11 OAI45A 01

(C2F073) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
AILRON = .000 BOFLAP = .000
SPOBRK = .000 RUDDER = .000
RN/L = 5.000

RUN NO. 646/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|---------|---------|--------|--------|---------|---------|--------|---------|--------|
| .597 | -6.049 | 5.08090 | .01420 | -.00060 | .00970 | .00000 | -.10290 | .02000 | .00850 | -.00980 | .00850 |
| .597 | -1.927 | 5.05980 | .01920 | -.00560 | .00970 | .00000 | -.10290 | .02990 | .00850 | -.01970 | .00850 |
| .598 | -.879 | 5.03170 | .01920 | -.00560 | .00970 | .00000 | -.10960 | .02990 | .00850 | -.01970 | .00850 |
| .598 | .026 | 4.98140 | .01670 | -.00310 | .00970 | .00000 | -.10960 | .02490 | .00850 | -.01470 | .00850 |
| .598 | .503 | 5.10570 | .01670 | -.00310 | .00970 | .00000 | -.10960 | .02490 | .00850 | -.01470 | .00850 |
| .598 | 1.024 | 5.14580 | .01670 | -.00310 | .00970 | .00000 | -.11640 | .02490 | .00850 | -.01470 | .00850 |
| .598 | 2.095 | 5.14840 | .01670 | -.00310 | .00970 | .00000 | -.11640 | .02490 | .00850 | -.01470 | .00850 |
| .598 | 3.143 | 5.13230 | .01670 | -.00310 | .00970 | .00000 | -.11640 | .02490 | .00850 | -.01470 | .00850 |
| .598 | 4.177 | 5.13190 | .01670 | -.00310 | .00970 | .00000 | -.11640 | .02490 | .00850 | -.01470 | .00850 |
| .598 | 6.236 | 5.12490 | .01670 | -.00310 | .00970 | .00000 | -.11640 | .02490 | .00850 | -.01470 | .00850 |
| | GRADIENT | .02004 | -.00042 | .00042 | .00000 | .00000 | -.00216 | -.00083 | .00000 | .00083 | .00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1084

(C2F073) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = .000 RUDDER = .000
 RN/L = 5.000

RUN NO. 660/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-IB | AIL-IB | AIL-OB |
|------|----------|---------|--------|---------|---------|--------|---------|--------|---------|---------|
| .799 | -6.105 | 5.10360 | .01290 | -.00780 | .01940 | .00000 | -.07590 | .02000 | -.00980 | -.00580 |
| .801 | -1.953 | 5.06840 | .01290 | -.00780 | .01940 | .00000 | -.07590 | .02000 | -.00980 | -.00580 |
| .799 | -.912 | 5.04700 | .01290 | -.00780 | .01940 | .00000 | -.08940 | .02000 | -.00980 | -.00580 |
| .800 | -.038 | 4.86690 | .01290 | -.00780 | .01940 | .00000 | -.08940 | .02000 | -.00980 | -.00580 |
| .799 | .664 | 5.07340 | .01290 | -.00780 | .01940 | .00000 | -.09620 | .02000 | -.00980 | -.00580 |
| .799 | 1.166 | 5.09530 | .01290 | -.00780 | .00970 | .00000 | -.10290 | .02000 | -.00980 | -.00700 |
| .799 | 2.204 | 5.07640 | .01920 | -.00140 | .00970 | .00000 | -.10290 | .02000 | -.00980 | -.00270 |
| .799 | 3.246 | 5.06220 | .01710 | -.00350 | .00970 | .00000 | -.10290 | .02000 | -.00980 | -.00270 |
| .799 | 4.286 | 5.04690 | .01710 | -.00350 | .00970 | .00000 | -.11640 | .02000 | -.00980 | -.00270 |
| .797 | 6.353 | 5.02470 | .01710 | -.00350 | .00970 | .00000 | -.11640 | .02000 | -.00980 | -.00270 |
| | GRADIENT | .00628 | .00096 | .00098 | -.00207 | .00000 | -.00412 | .00000 | -.00000 | .00195 |

RUN NO. 634/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-IB | AIL-IB | AIL-OB |
|------|----------|---------|--------|---------|---------|--------|---------|--------|---------|---------|
| .899 | -6.153 | 5.18490 | .01880 | -.00100 | .02910 | .00000 | -.10960 | .02490 | -.01470 | .01280 |
| .902 | -2.033 | 5.18210 | .01670 | -.00310 | .01940 | .00000 | -.10960 | .02490 | -.01470 | .00850 |
| .900 | -.992 | 5.15610 | .01460 | -.00520 | .01940 | .00000 | -.10960 | .02490 | -.01470 | .00430 |
| .900 | .096 | 4.93100 | .01460 | -.00520 | .01940 | .00000 | -.10960 | .02490 | -.01470 | .00430 |
| .899 | .580 | 4.90900 | .01460 | -.00520 | .01940 | .00000 | -.10960 | .02490 | -.01470 | .00430 |
| .900 | 1.102 | 4.91200 | .01960 | -.00600 | .00970 | .00000 | -.10960 | .02490 | -.01470 | .00270 |
| .899 | 2.146 | 4.91220 | .01960 | -.00600 | .00970 | .00000 | -.10960 | .02490 | -.01470 | .00270 |
| .899 | 3.184 | 4.91250 | .01960 | -.00600 | .00970 | .00000 | -.10960 | .02490 | -.01470 | .00270 |
| .899 | 4.225 | 4.91130 | .02250 | -.00890 | .01940 | .00000 | -.10960 | .02490 | -.01470 | .00300 |
| .896 | 6.313 | 4.90350 | .01750 | -.00810 | .00970 | .00000 | -.11640 | .02490 | -.01470 | -.00150 |
| | GRADIENT | -.04381 | .00115 | -.00068 | -.00070 | .00000 | .00000 | .00000 | -.00000 | -.00135 |

RUN NO. 627/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-IB | AIL-IB | AIL-OB |
|------|----------|---------|---------|---------|--------|--------|---------|--------|---------|---------|
| .951 | -6.176 | 5.05560 | .01040 | -.00530 | .00970 | .00000 | -.10290 | .01500 | -.00480 | -.00580 |
| .951 | -2.041 | 5.06180 | .01040 | -.00530 | .00970 | .00000 | -.10290 | .01500 | -.00480 | -.00580 |
| .951 | -.992 | 5.07080 | .01040 | -.00530 | .00970 | .00000 | -.10960 | .01500 | -.00480 | -.00580 |
| .950 | .069 | 5.01260 | .00750 | -.00240 | .00970 | .00000 | -.10960 | .01500 | -.00480 | .00000 |
| .950 | .564 | 5.04900 | .00750 | -.00240 | .00970 | .00000 | -.10960 | .01500 | -.00480 | .00000 |
| .950 | 1.097 | 5.04740 | .00750 | -.00240 | .00970 | .00000 | -.10960 | .01500 | -.00480 | .00000 |
| .950 | 2.146 | 5.03170 | .00750 | -.00240 | .00970 | .00000 | -.10960 | .01500 | -.00480 | .00000 |
| .951 | 3.184 | 5.02620 | .00750 | -.00240 | .00970 | .00000 | -.10960 | .01500 | -.00480 | .00000 |
| .950 | 4.226 | 5.02160 | .00750 | -.00240 | .00970 | .00000 | -.10960 | .01500 | -.00480 | .00000 |
| .947 | 6.315 | 5.00190 | .00750 | -.00240 | .00970 | .00000 | -.10960 | .01500 | -.00480 | .00000 |
| | GRADIENT | -.00664 | -.00048 | .00048 | .00000 | .00000 | -.00067 | .00000 | -.00000 | .00096 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(C2F073) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = .000 RUDDER = .000
 RN/L = 5.000

RUN NO. 621/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|---------|--------|---------|---------|--------|---------|--------|--------|---------|---------|
| 1.102 | -6.064 | 5.10810 | .01610 | -.01100 | .01940 | .00000 | -.10960 | .01500 | .01730 | -.00480 | -.01730 |
| 1.101 | -1.961 | 5.08000 | .01610 | -.01100 | .01940 | .00000 | -.11640 | .01500 | .01730 | -.00480 | -.01730 |
| 1.101 | -.920 | 5.05500 | .01830 | -.00890 | .01940 | .00000 | -.11640 | .01500 | .02150 | -.00480 | -.01300 |
| 1.100 | .152 | 5.07360 | .01960 | -.00180 | .01940 | .00000 | -.11640 | .01500 | .02430 | -.00480 | .00120 |
| 1.101 | .649 | 5.09060 | .02390 | .00250 | .00970 | .00000 | -.11640 | .01500 | .03280 | -.00480 | .00970 |
| 1.101 | 1.167 | 5.07720 | .01960 | -.00180 | .00970 | .00000 | -.11640 | .01500 | .02430 | -.00480 | .00120 |
| 1.102 | 2.215 | 5.05830 | .02420 | -.00210 | .01940 | .00000 | -.11640 | .02000 | .02850 | -.00980 | .00550 |
| 1.100 | 3.260 | 5.04400 | .01960 | -.00180 | .00970 | .00000 | -.11640 | .01500 | .02430 | -.00480 | .00120 |
| 1.099 | 4.295 | 5.03210 | .02420 | -.00210 | .00970 | .00000 | -.11640 | .02000 | .02850 | -.00980 | .00550 |
| 1.100 | 6.360 | 5.00390 | .01250 | -.00320 | .00970 | .00000 | -.11640 | .01500 | .01000 | -.00480 | -.00150 |
| | GRADIENT | -.00660 | .00102 | .00128 | -.00171 | .00000 | .00000 | .00070 | .00135 | -.00070 | .00326 |

RUN NO. 613/ 0 RN/L = 5.06 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|---------|--------|---------|---------|--------|---------|--------|--------|---------|---------|
| 1.203 | -6.173 | 5.16850 | .02330 | -.00970 | .00970 | .00000 | -.10290 | .01500 | .03150 | -.00480 | -.01450 |
| 1.204 | -2.065 | 5.14670 | .02040 | -.00680 | .00970 | .00000 | -.10290 | .01500 | .02580 | -.00480 | -.00880 |
| 1.200 | -1.017 | 5.15380 | .02040 | -.00680 | .00970 | .00000 | -.10290 | .01500 | .02580 | -.00480 | -.00880 |
| 1.203 | .041 | 5.10420 | .02000 | -.00220 | .00000 | .00000 | -.10290 | .01500 | .03000 | -.00110 | -.00450 |
| 1.202 | .553 | 5.10810 | .02250 | -.00470 | .00000 | .00000 | -.10290 | .01500 | .03000 | -.00480 | -.00450 |
| 1.204 | 1.083 | 5.10530 | .02250 | -.00470 | .00000 | .00000 | -.10290 | .01500 | .03430 | -.00480 | -.00030 |
| 1.202 | 2.123 | 5.10600 | .02460 | -.00250 | .00000 | .00000 | -.10290 | .01500 | .03850 | -.00480 | .00400 |
| 1.204 | 3.166 | 5.10970 | .02680 | -.00040 | .00000 | .00000 | -.10290 | .01500 | .04700 | -.00480 | .01250 |
| 1.201 | 4.215 | 5.11200 | .03100 | -.00380 | .00000 | .00000 | -.10290 | .01500 | .02580 | -.00480 | -.00880 |
| 1.201 | 6.312 | 5.11400 | .02040 | -.00680 | .00970 | .00000 | -.10290 | .01500 | .00321 | -.00015 | .00322 |
| | GRADIENT | -.00629 | .00168 | .00153 | -.00160 | .00000 | .00000 | .00016 | .00321 | -.00015 | .00322 |

RUN NO. 604/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|---------|--------|---------|--------|--------|---------|--------|--------|---------|---------|
| 1.403 | -6.103 | 5.08250 | .01250 | -.00320 | .01940 | .00000 | -.10290 | .01500 | .01000 | -.00480 | -.00150 |
| 1.404 | -1.978 | 5.04980 | .01250 | -.00320 | .01940 | .00000 | -.10290 | .01500 | .01000 | -.00480 | -.00150 |
| 1.403 | -.932 | 5.02530 | .01250 | -.00320 | .01940 | .00000 | -.10290 | .01500 | .01000 | -.00480 | -.00150 |
| 1.405 | .145 | 5.04240 | .01250 | -.00320 | .01940 | .00000 | -.10290 | .01500 | .01000 | -.00480 | -.00150 |
| 1.404 | .638 | 5.05630 | .01250 | -.00320 | .01940 | .00000 | -.10290 | .01500 | .01430 | -.00480 | .00270 |
| 1.403 | 1.161 | 5.03960 | .01460 | -.00100 | .01940 | .00000 | -.10290 | .01500 | .01430 | -.00480 | .00270 |
| 1.402 | 2.220 | 5.02000 | .01460 | -.00100 | .01940 | .00000 | -.10290 | .01500 | .01430 | -.00480 | .00270 |
| 1.404 | 3.275 | 5.00300 | .01460 | -.00100 | .01940 | .00000 | -.10290 | .01500 | .01430 | -.00480 | .00270 |
| 1.402 | 4.319 | 4.99130 | .01460 | -.00100 | .01940 | .00000 | -.10290 | .01500 | .02280 | -.00480 | .00120 |
| 1.402 | 6.398 | 4.97350 | .01890 | .00320 | .01940 | .00000 | -.10290 | .01500 | .00091 | -.00000 | .00089 |
| | GRADIENT | -.00866 | .00044 | .00046 | .00000 | .00000 | .00000 | .00000 | .00091 | -.00000 | .00089 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(C2F074) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = .000 RUDDER = .000
 RN/L = 5.000

RUN NO. 647/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-IB | AIL-IB | ELV-OB | AIL-OB |
|------|----------|----------|---------|---------|--------|--------|---------|---------|---------|---------|---------|
| .600 | -6.060 | 10.07500 | .02340 | -.00130 | .00970 | .00000 | -.09620 | .02990 | -.01970 | .01700 | .01700 |
| .600 | -1.034 | 10.09000 | .02130 | -.00350 | .00970 | .00000 | -.10960 | .02990 | -.01970 | .01280 | .01280 |
| .599 | -.971 | 10.09500 | .02130 | -.00350 | .00970 | .00000 | -.10960 | .02990 | -.01970 | .01280 | .01280 |
| .600 | .062 | 10.10100 | .02130 | -.00350 | .00970 | .00000 | -.10960 | .02990 | -.01970 | .01280 | .01280 |
| .600 | .559 | 10.10600 | .02420 | -.00630 | .00970 | .00000 | -.10960 | .02990 | -.01970 | .01850 | .00700 |
| .600 | 1.061 | 10.09200 | .01250 | -.00320 | .00970 | .00000 | -.10960 | .01500 | -.00480 | .01000 | -.00150 |
| .600 | 2.095 | 10.10300 | .01500 | -.00560 | .00970 | .00000 | -.10960 | .02000 | -.00980 | .01000 | -.00150 |
| .600 | 3.126 | 10.11500 | .01250 | -.00320 | .00970 | .00000 | -.10960 | .01500 | -.00480 | .01000 | -.00150 |
| .599 | 4.167 | 10.13200 | .01500 | -.00560 | .00970 | .00000 | -.10960 | .02000 | -.00980 | .01000 | -.00150 |
| .599 | 6.235 | 10.13300 | .01250 | -.00320 | .00970 | .00000 | -.10960 | .01500 | -.00480 | .01000 | -.00150 |
| | GRADIENT | .00493 | -.00158 | -.00024 | .00000 | .00000 | -.00048 | -.00250 | .00250 | -.00069 | -.00299 |

RUN NO. 635/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-IB | AIL-IB | ELV-OB | AIL-OB |
|------|----------|----------|---------|---------|--------|--------|---------|--------|---------|---------|---------|
| .899 | -6.125 | 10.08300 | .01920 | -.00140 | .00970 | .00000 | -.10290 | .02000 | -.00980 | .01850 | .01700 |
| .900 | -2.024 | 10.13000 | .00970 | .00390 | .00970 | .00000 | -.10960 | .00510 | .00510 | .01430 | .00270 |
| .900 | -.990 | 10.13000 | .00970 | .00390 | .00970 | .00000 | -.10960 | .00510 | .00510 | .01430 | .00270 |
| .898 | .055 | 10.13700 | .00750 | .00180 | .00970 | .00000 | -.10960 | .00510 | .00510 | .01000 | -.00150 |
| .900 | .558 | 10.14900 | .00540 | -.00030 | .00970 | .00000 | -.10960 | .00510 | .00510 | .00580 | -.00580 |
| .899 | 1.067 | 10.13300 | .00540 | -.00030 | .00970 | .00000 | -.10960 | .00510 | .00510 | .00580 | -.00580 |
| .899 | 2.119 | 10.14500 | .00540 | -.00030 | .00970 | .00000 | -.10960 | .00510 | .00510 | .00580 | -.00580 |
| .899 | 3.162 | 10.15500 | .00540 | -.00030 | .00970 | .00000 | -.10960 | .00510 | .00510 | .00580 | -.00580 |
| .898 | 4.220 | 10.17500 | .00540 | -.00030 | .00970 | .00000 | -.10960 | .00510 | .00510 | .01430 | .00270 |
| .898 | 6.306 | 10.17200 | .00970 | .00390 | .01940 | .00000 | -.10960 | .00510 | .00510 | .01430 | .00270 |
| | GRADIENT | .00651 | -.00078 | -.00076 | .00000 | .00000 | -.00000 | .00000 | .00000 | -.00154 | -.00155 |

RUN NO. 628/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-IB | AIL-IB | ELV-OB | AIL-OB |
|------|--------|----------|--------|---------|---------|--------|---------|--------|---------|--------|--------|
| .951 | -6.159 | 9.97660 | .01460 | -.00100 | .00970 | .00000 | -.09620 | .01500 | -.00480 | .01430 | .00270 |
| .951 | -2.045 | 10.02000 | .01680 | .00110 | .00970 | .00000 | -.09620 | .01500 | -.00480 | .01850 | .00700 |
| .949 | -1.005 | 10.01400 | .01680 | .00110 | .01940 | .00000 | -.10290 | .01500 | -.00480 | .01850 | .00700 |
| .950 | .046 | 10.02100 | .01680 | .00110 | .00970 | .00000 | -.10960 | .01500 | -.00480 | .01850 | .00700 |
| .950 | .553 | 10.02900 | .01680 | .00110 | .00970 | .00000 | -.10960 | .01500 | -.00480 | .01850 | .00700 |
| .951 | 1.066 | 10.01200 | .01680 | .00110 | .00970 | .00000 | -.10960 | .01500 | -.00480 | .01850 | .00700 |
| .949 | 2.120 | 10.02200 | .01890 | .00320 | .00970 | .00000 | -.10960 | .01500 | -.00480 | .02280 | .01120 |
| .950 | 3.169 | 10.04000 | .01890 | .00320 | .00970 | .00000 | -.10960 | .01500 | -.00480 | .02280 | .01120 |
| .950 | 4.229 | 10.05400 | .01890 | .00320 | .00970 | .00000 | -.10290 | .01500 | -.00480 | .02280 | .01120 |
| .950 | 6.318 | 10.04400 | .01710 | -.00350 | .00970 | .00000 | -.10960 | .02000 | -.00980 | .01430 | .00270 |
| .947 | | .00523 | .00044 | .00044 | -.00064 | .00000 | -.00060 | .00000 | .00000 | .00090 | .00088 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

(C2F075) (08 JUL 77)

AMES 118-1-11 0A145A 01

| REFERENCE DATA | | | | | | | | | | PARAMETRIC DATA | | | | | | | | | |
|---------------------------------|-----------|---------|---------|--------|-----------|---------|--------|--------|--------|---------------------------------|---------|--------|--|--|--|--|--|--|--|
| SREF = | 2690.0000 | SO.FT. | XMRP | = | 1076.6800 | IN. XO | | | | | | | | | | | | | |
| LREF = | 474.8100 | INCHES | YMRP | = | .0000 | IN. YO | | | | | | | | | | | | | |
| BREF = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. ZO | | | | | | | | | | | | | |
| SCALE = | .0500 | | | | | | | | | | | | | | | | | | |
| RUN NO. 648/ 0 | | | | | | | | | | RUN NO. 636/ 0 | | | | | | | | | |
| GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | | GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | |
| MACH | .600 | RUDDER | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | ELV-IB | ELV-OB | AIL-IB | AIL-OB | | | | | | | |
| .600 | -14.960 | -0.7350 | -0.1500 | .01000 | .01000 | -.00490 | .00970 | .00000 | .02000 | .00000 | -.00980 | .00000 | | | | | | | |
| .600 | -10.718 | -0.7370 | -0.1630 | .01000 | .01000 | -.00490 | .00970 | .00000 | .02000 | .00000 | -.00980 | .00000 | | | | | | | |
| .600 | -4.969 | -0.7340 | .01390 | .01000 | .01000 | -.00490 | .00970 | .00000 | .02000 | .00000 | -.00980 | .00000 | | | | | | | |
| .600 | -2.426 | -0.7380 | .01310 | .01000 | .01000 | -.00490 | .00970 | .00000 | .02000 | .00000 | -.00980 | .00000 | | | | | | | |
| .600 | -.089 | -0.7440 | .01150 | .01000 | .01000 | -.00490 | .00970 | .00000 | .02000 | .00000 | -.00980 | .00000 | | | | | | | |
| .600 | 2.505 | -0.7450 | .01040 | .01250 | .01250 | -.00740 | .00970 | .00000 | .02490 | .00000 | -.01470 | .00000 | | | | | | | |
| .600 | 5.014 | -0.7570 | .00880 | .01250 | .01250 | -.00740 | .00970 | .00000 | .02490 | .00000 | -.01470 | .00000 | | | | | | | |
| .600 | 10.019 | -0.7710 | .00620 | .01250 | .01250 | -.00740 | .00970 | .00000 | .02490 | .00000 | -.01470 | .00000 | | | | | | | |
| .600 | 14.996 | -0.7780 | .00290 | .01250 | .01250 | -.00740 | .00970 | .00000 | .02490 | .00000 | -.01470 | .00000 | | | | | | | |
| .600 | 18.125 | -0.7810 | .00040 | .01250 | .01250 | -.00740 | .00970 | .00000 | .02490 | .00000 | -.01470 | .00000 | | | | | | | |
| .600 | 22.799 | -0.7880 | -.00340 | .01250 | .01250 | -.00740 | .00970 | .00000 | .02490 | .00000 | -.01470 | .00000 | | | | | | | |
| .600 | GRADIENT | -.00016 | -.00049 | .00031 | .00000 | -.00031 | .00000 | .00000 | .00060 | .00000 | -.00060 | .00000 | | | | | | | |
| RUN NO. 636/ 0 | | | | | | | | | | RUN NO. 636/ 0 | | | | | | | | | |
| GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | | GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | |
| MACH | .901 | RUDDER | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | ELV-IB | ELV-OB | AIL-IB | AIL-OB | | | | | | | |
| .902 | -14.993 | -0.9000 | .01580 | .01750 | .01500 | -.00430 | .01940 | .00000 | .01000 | .02580 | .00010 | .00880 | | | | | | | |
| .900 | -10.762 | -0.9100 | .01330 | .01500 | .01500 | -.00140 | .01940 | .00000 | .01000 | .02000 | .00010 | .00300 | | | | | | | |
| .900 | -4.939 | -0.9370 | .01210 | .01500 | .01500 | -.00140 | .00970 | .00000 | .01000 | .02000 | .00010 | .00300 | | | | | | | |
| .899 | -2.442 | -0.9500 | .01180 | .01500 | .01500 | -.00140 | .00970 | .00000 | .01000 | .02000 | .00010 | .00300 | | | | | | | |
| .900 | -.089 | -0.9460 | .01120 | .01500 | .01500 | -.00140 | .01940 | .00000 | .01000 | .02000 | .00010 | .00300 | | | | | | | |
| .900 | 2.522 | -0.9600 | .01060 | .01500 | .01500 | -.00140 | .00970 | .00000 | .01000 | .02000 | .00010 | .00300 | | | | | | | |
| .900 | 5.024 | -0.9520 | .00980 | .01500 | .01500 | -.00140 | .00970 | .00000 | .01000 | .02000 | .00010 | .00300 | | | | | | | |
| .901 | 10.011 | -0.9670 | .00800 | .01500 | .01500 | -.00140 | .00970 | .00000 | .01000 | .02000 | .00010 | .00300 | | | | | | | |
| .899 | 14.996 | -0.9820 | .00430 | .01500 | .01500 | -.00140 | .00970 | .00000 | .01000 | .02000 | .00010 | .00300 | | | | | | | |
| .900 | 18.116 | -0.9700 | .00090 | .01500 | .01500 | -.00140 | .01940 | .00000 | .01000 | .02000 | .00010 | .00300 | | | | | | | |
| .900 | 22.818 | -0.9750 | -.00290 | .01500 | .01500 | -.00140 | .00970 | .00000 | .01000 | .02000 | .00010 | .00300 | | | | | | | |
| .900 | GRADIENT | -.00027 | -.00021 | .00000 | .00000 | .00000 | .00036 | .00000 | .00000 | .00000 | -.00000 | .00000 | | | | | | | |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1089

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(C2F075: (08 JUL 77)

REFERENCE DATA

| | | | | | | | | | |
|---|-------|---|-----------|--------|------|---|-----------|-----|----|
| = | SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. | XO |
| = | LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. | YO |
| = | BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. | ZO |
| = | SCALE | = | .0500 | | | | | | |

ALPHA
ELEVON
BDFLAP
RN/L

| | | |
|--------|---|------|
| BETA | = | .000 |
| AIRON | = | .000 |
| SPOBRK | = | .000 |

PARAMETRIC DATA

| | | | |
|---------|--------|-------------|---------------------------------|
| RUN NO: | 629/ 0 | RN/L = 5.03 | GRADIENT INTERVAL = -5.00/ 5.00 |
|---------|--------|-------------|---------------------------------|

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|----------|---------|---------|---------|--------|---------|--------|--------|---------|---------|---------|---------|
| .952 | -14.993 | -.09420 | .00780 | .02140 | .00070 | .01940 | .00000 | .02800 | .02800 | -.00980 | .01120 |
| .951 | -10.745 | -.09530 | .00600 | .02140 | .00070 | .01940 | .00000 | .02800 | .02800 | -.00980 | .01120 |
| .953 | -4.954 | -.09780 | .00600 | .02140 | .00070 | .00970 | .00000 | .02800 | .02800 | -.00980 | .01120 |
| .953 | -2.434 | -.09780 | .00520 | .02140 | .00070 | .00970 | .00000 | .02800 | .02800 | -.00980 | .01120 |
| .951 | -.116 | -.06340 | -.00340 | .02140 | .00070 | .01940 | .00000 | .02800 | .02800 | -.00980 | .01120 |
| .952 | 2.505 | -.06410 | -.00360 | .02140 | .00070 | .00970 | .00000 | .02800 | .02800 | -.00980 | .01120 |
| .952 | 5.024 | -.06440 | -.00390 | .02140 | .00070 | .00970 | .00000 | .02800 | .02800 | -.00980 | .01120 |
| .951 | 10.011 | -.06640 | -.00530 | .02140 | .00070 | .00970 | .00000 | .02800 | .02800 | -.00980 | .01120 |
| .951 | 15.022 | -.06570 | -.00870 | .02140 | .00070 | .00970 | .00000 | .02800 | .02800 | -.00980 | .01120 |
| .950 | 18.107 | -.06430 | -.01050 | .02140 | .00070 | .00970 | .00000 | .02800 | .02800 | -.00980 | .01120 |
| .951 | 22.827 | -.06240 | -.01370 | .01680 | -.00180 | .00970 | .00000 | .02800 | .02800 | -.01490 | .01120 |
| GRADIENT | .00535 | -.00150 | -.00150 | .00000 | -.00000 | .00035 | .00000 | -.00000 | -.00000 | .00000 | -.00000 |

| | | | | | |
|---------|--------|------|------|-------------------|--------------|
| RUN NO. | 616/ 0 | RN/L | 5.07 | GRADIENT INTERVAL | - 5.00/ 5.00 |
|---------|--------|------|------|-------------------|--------------|

[illegible]

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

PAGE 1090
(C2F076) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELEVON = .000 AILRON = .000
BDFLAP = .000 SPOBRK = .000
RN/L = 5.000

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|---------|--------|---------|---------|--------|--------|--------|---------|--------|
| .600 | -15.010 | 4.94220 | .04380 | .01250 | -.00740 | .00970 | .00000 | .02490 | .00000 | -.01470 | .00000 |
| .600 | -10.754 | 4.94010 | .04130 | .01250 | -.00740 | .00970 | .00000 | .02490 | .00000 | -.01470 | .00000 |
| .600 | -4.932 | 4.93950 | .03860 | .01250 | -.00740 | .00970 | .00000 | .02490 | .00000 | -.01470 | .00000 |
| .600 | -2.434 | 4.93970 | .03720 | .01250 | -.00740 | .00970 | .00000 | .02490 | .00000 | -.01470 | .00000 |
| .600 | -1.103 | 4.93980 | .03570 | .01250 | -.00740 | .00970 | .00000 | .02490 | .00000 | -.01470 | .00000 |
| .600 | 2.513 | 4.94050 | .03290 | .01250 | -.00740 | .00970 | .00000 | .02490 | .00000 | -.01470 | .00000 |
| .600 | 4.996 | 4.94050 | .03090 | .01490 | -.00980 | .00970 | .00000 | .02990 | .00000 | -.01970 | .01280 |
| .600 | 10.003 | 4.94280 | .02820 | .02130 | -.00350 | .00970 | .00000 | .02990 | .01280 | -.01970 | .01280 |
| .600 | 15.014 | 4.94330 | .02540 | .02130 | -.00350 | .00970 | .00000 | .02000 | .01280 | -.00980 | .01280 |
| .600 | 18.125 | 4.94360 | .02320 | .01640 | .00150 | .00970 | .00000 | .02000 | .01280 | -.00980 | .01280 |
| .600 | 22.827 | 4.94450 | .02050 | .00150 | .00150 | .00970 | .00000 | .00041 | .00000 | -.00041 | .00000 |
| .600 | GRADIENT | .00011 | -.00080 | .00019 | -.00019 | -.00039 | .00000 | .00041 | .00000 | .00000 | .00000 |

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|---------|---------|--------|---------|--------|--------|--------|---------|--------|
| .800 | -14.965 | 4.96690 | .03680 | .01680 | .00110 | .00970 | .00000 | .01500 | .01850 | -.00480 | .00700 |
| .800 | -10.736 | 4.96690 | .03440 | .01680 | .00110 | .00970 | .00000 | .01500 | .01850 | -.00480 | .00700 |
| .800 | -4.902 | 4.96630 | .03190 | .01680 | .00110 | .00970 | .00000 | .01500 | .01850 | -.00480 | .00700 |
| .800 | -2.451 | 4.96570 | .03080 | .01680 | .00110 | .00970 | .00000 | .01500 | .01850 | -.00480 | .00700 |
| .800 | -1.123 | 4.96690 | .02900 | .01680 | .00110 | .00970 | .00000 | .01500 | .01850 | -.00480 | .00700 |
| .800 | 2.488 | 4.96720 | .02680 | .01680 | .00110 | .00970 | .00000 | .01500 | .01850 | -.00480 | .00700 |
| .800 | 5.014 | 4.96770 | .02480 | .01680 | .00110 | .00970 | .00000 | .01500 | .01850 | -.00480 | .00700 |
| .800 | 10.003 | 4.96920 | .02170 | .01680 | .00110 | .00970 | .00000 | .01500 | .01850 | -.00480 | .00700 |
| .800 | 15.014 | 4.97030 | .01900 | .01680 | .00110 | .00970 | .00000 | .01500 | .01850 | -.00480 | .00700 |
| .800 | 18.107 | 4.97190 | .01710 | .01680 | .00110 | .00970 | .00000 | .01500 | .01850 | -.00480 | .00700 |
| .800 | 22.827 | 4.97230 | .01440 | .01680 | .00110 | .00970 | .00000 | .01500 | .01850 | -.00480 | .00700 |
| .800 | GRADIENT | .00016 | -.00070 | -.00000 | .00000 | -.00003 | .00000 | .00000 | .00000 | .00000 | .00000 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

(C2F076) (08 JUL 77)

AMES 118-1-11 0A145A 01

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

ALPHA =
 ELEVON =
 BDFLAP =
 RN/L =

BETA =
 AILRON =
 SPDBRK =

RUN NO. 637/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-IB | AIL-IB | ELV-OB | AIL-OB |
|------|----------|---------|---------|--------|---------|--------|--------|--------|--------|--------|---------|
| .900 | -14.976 | 5.01600 | .04090 | .00790 | -.00280 | .01940 | .00000 | .01000 | .00010 | .00580 | -.00580 |
| .900 | -10.736 | 5.01530 | .03910 | .00500 | .00010 | .01940 | .00000 | .01000 | .00010 | .00000 | .00000 |
| .902 | -4.954 | 5.01430 | .03670 | .00500 | .00010 | .00970 | .00000 | .01000 | .00010 | .00000 | .00000 |
| .900 | -2.426 | 5.01250 | .03550 | .00500 | .00010 | .00970 | .00000 | .01000 | .00010 | .00000 | .00000 |
| .900 | -1.103 | 5.01520 | .03480 | .01080 | -.00570 | .01940 | .00000 | .01000 | .00010 | .01150 | -.01150 |
| .900 | 2.513 | 5.01540 | .03360 | .01080 | -.00570 | .01940 | .00000 | .01000 | .00010 | .01150 | -.01150 |
| .900 | 5.005 | 5.01600 | .03180 | .01080 | -.00570 | .00970 | .00000 | .01000 | .00010 | .01150 | -.01150 |
| .900 | 10.019 | 5.01720 | .02860 | .01080 | -.00570 | .00970 | .00000 | .01000 | .00010 | .00580 | -.00580 |
| .900 | 15.022 | 5.01730 | .02610 | .00790 | -.00280 | .00970 | .00000 | .01000 | .00010 | .00580 | -.00580 |
| .900 | 18.107 | 5.01710 | .02420 | .00790 | -.00280 | .00970 | .00000 | .01000 | .00010 | .00580 | -.00580 |
| .900 | 22.808 | 5.02100 | .02170 | .00790 | -.00280 | .00970 | .00000 | .01000 | .00010 | .00580 | -.00580 |
| .900 | GRADIENT | .00024 | -.00041 | .00093 | -.00093 | .00036 | .00000 | .00000 | .00000 | .00184 | -.00184 |

RUN NO. 630/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-IB | AIL-IB | ELV-OB | AIL-OB |
|------|----------|---------|---------|---------|---------|---------|--------|---------|---------|--------|--------|
| .951 | -14.965 | 4.92330 | .03330 | .01640 | .00150 | .00970 | .00000 | .02000 | -.00980 | .01280 | .01280 |
| .951 | -10.736 | 4.99600 | .03700 | .01640 | .00150 | .00970 | .00000 | .02000 | -.00980 | .01280 | .01280 |
| .952 | -4.961 | 4.99810 | .03520 | .01640 | .00150 | .00970 | .00000 | .02000 | -.00980 | .01280 | .01280 |
| .952 | -2.442 | 4.99750 | .03440 | .01640 | .00150 | .00970 | .00000 | .02000 | -.00980 | .01280 | .01280 |
| .949 | -1.110 | 4.9980 | .03390 | .01640 | .00150 | .00970 | .00000 | .02000 | -.00980 | .01280 | .01280 |
| .950 | 2.488 | 4.99530 | .03330 | .01640 | .00150 | .00970 | .00000 | .02000 | -.00980 | .01280 | .01280 |
| .951 | 5.014 | 4.99720 | .03180 | .01640 | .00150 | .00970 | .00000 | .02000 | -.00980 | .01280 | .01280 |
| .951 | 10.011 | 4.99710 | .02820 | .01640 | .00150 | .00970 | .00000 | .02000 | -.00980 | .01280 | .01280 |
| .951 | 15.005 | 4.93990 | .02570 | .01640 | .00150 | .00970 | .00000 | .02000 | -.00980 | .01280 | .01280 |
| .950 | 18.107 | 5.01030 | .02420 | .01640 | .00150 | .00970 | .00000 | .02000 | -.00980 | .01280 | .01280 |
| .951 | 22.827 | 5.01160 | .02190 | .01640 | -.00100 | .00970 | .00000 | .02490 | -.01470 | .01280 | .01280 |
| .951 | GRADIENT | -.00044 | -.00025 | -.00000 | -.00000 | -.00119 | .00000 | -.00000 | .00000 | .00000 | .00000 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1092

AMES 118-1-11 0A145A 01

(C2F076) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA =
ELEVON =
BDFLAP =
RN/L =

5.000 BETA =
.000 AILRON =
.000 SPDBRK =
5.000

RUN NO. 620/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-1B | ELV-OB | AIL-1B | AIL-OB |
|-------|----------|---------|---------|---------|---------|---------|--------|--------|---------|---------|---------|
| 1.100 | -14.993 | 4.97760 | .03090 | .02070 | -.01140 | .01940 | .00000 | .02000 | .02150 | -.00980 | -.01300 |
| 1.103 | -10.771 | 4.97800 | .03050 | .02070 | -.01140 | .01940 | .00000 | .02000 | .02150 | -.00980 | -.01300 |
| 1.101 | -4.947 | 4.98260 | .02950 | .02070 | -.01140 | .00970 | .00000 | .02000 | .02150 | -.00980 | -.01300 |
| 1.102 | -2.434 | 4.98490 | .02880 | .02070 | -.01140 | .01940 | .00000 | .02000 | .02150 | -.00980 | -.01300 |
| 1.103 | -1.103 | 4.98530 | .02810 | .02070 | -.01140 | .01940 | .00000 | .02000 | .02150 | -.00980 | -.01300 |
| 1.101 | 2.513 | 4.98510 | .02630 | .02070 | -.01140 | .00970 | .00000 | .02000 | .02150 | -.00980 | -.01300 |
| 1.103 | 5.014 | 4.98560 | .02530 | .02070 | -.01140 | .01940 | .00000 | .02000 | .02150 | -.00980 | -.01300 |
| 1.101 | 10.019 | 4.98630 | .02260 | .01860 | -.01350 | .00970 | .00000 | .02000 | .01730 | -.00980 | -.01300 |
| 1.102 | 15.014 | 4.98770 | .02120 | .02070 | -.01140 | .00970 | .00000 | .02000 | .02150 | -.00980 | -.01300 |
| 1.102 | 18.115 | 4.99240 | .02060 | .02070 | -.01140 | .01940 | .00000 | .02000 | .02150 | -.00980 | -.01300 |
| 1.102 | 22.836 | 4.99530 | .01890 | .01860 | -.01350 | .01940 | .00000 | .02000 | .01730 | -.00980 | -.01730 |
| 1.103 | GRADIENT | .00032 | -.00042 | -.00000 | .00000 | -.00002 | .00000 | .00000 | -.00000 | .00000 | .00000 |

RUN NO. 617/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-1B | ELV-OB | AIL-1B | AIL-OB |
|-------|----------|---------|---------|--------|---------|--------|--------|--------|---------|---------|---------|
| 1.203 | -14.976 | 5.00080 | .03120 | .02750 | -.00540 | .00970 | .00000 | .01500 | .04000 | -.00480 | -.00600 |
| 1.203 | -10.762 | 4.99760 | .03070 | .02750 | -.00540 | .00970 | .00000 | .01500 | .04000 | -.00480 | -.00600 |
| 1.204 | -4.932 | 4.99740 | .02920 | .02750 | -.00540 | .00970 | .00000 | .01500 | .04000 | -.00480 | -.00600 |
| 1.203 | -2.426 | 4.99680 | .02870 | .02750 | -.00540 | .00970 | .00000 | .01500 | .04000 | -.00480 | -.00600 |
| 1.203 | -1.110 | 4.99760 | .02750 | .02750 | -.00540 | .00970 | .00000 | .02010 | .04000 | -.00480 | -.00600 |
| 1.203 | 2.522 | 4.99720 | .02560 | .03000 | -.00290 | .00970 | .00000 | .01500 | .04000 | -.00480 | -.00600 |
| 1.202 | 5.005 | 4.99610 | .02470 | .02750 | -.00540 | .00970 | .00000 | .01500 | .04000 | -.00480 | -.00600 |
| 1.203 | 10.043 | 4.99900 | .02300 | .02750 | -.00540 | .00970 | .00000 | .01500 | .04000 | -.00480 | -.00600 |
| 1.202 | 15.014 | 5.00020 | .02170 | .02750 | -.00540 | .00970 | .00000 | .01500 | .04000 | -.00480 | -.00600 |
| 1.204 | 18.107 | 5.00370 | .02100 | .02750 | -.00540 | .00970 | .00000 | .01500 | .04000 | -.00480 | -.00600 |
| 1.203 | 22.827 | 5.00520 | .01960 | .02750 | -.00540 | .00970 | .00000 | .01500 | .04000 | -.00480 | -.00600 |
| 1.203 | GRADIENT | .00001 | -.00049 | .00031 | .00031 | .00000 | .00000 | .00063 | -.00000 | .00063 | .00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1093

AMES 118-1-11 OAI45A 01

(C2F076) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

ALPHA =
 ELEVON =
 BDFLAP =
 RN/L =

BETA = 5.000
 AILRON = .000
 SPDBRK = .000
 5.000

PARAMETRIC DATA

RUN NO. 606/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|---------|---------|---------|---------|--------|--------|---------|---------|---------|---------|
| 1.407 | -14.970 | 5.03870 | .03640 | .01250 | -.00320 | .01940 | .00000 | .01500 | .01000 | -.00480 | -.00150 |
| 1.407 | -10.745 | 5.03750 | .03560 | .01250 | -.00320 | .02910 | .00000 | .01500 | .01000 | -.00480 | -.00150 |
| 1.403 | -4.932 | 5.03680 | .03410 | .01250 | -.00320 | .01940 | .00000 | .01500 | .01000 | -.00480 | -.00150 |
| 1.404 | -2.426 | 5.03990 | .03290 | .01250 | -.00320 | .01940 | .00000 | .01500 | .01000 | -.00480 | -.00150 |
| 1.403 | -1.110 | 5.04060 | .03220 | .01250 | -.00320 | .01940 | .00000 | .01500 | .01000 | -.00480 | -.00150 |
| 1.403 | 2.505 | 5.04170 | .03120 | .01250 | -.00320 | .01940 | .00000 | .01500 | .01000 | -.00480 | -.00150 |
| 1.403 | 5.014 | 5.04140 | .03060 | .01250 | -.00320 | .02910 | .00000 | .01500 | .01000 | -.00480 | -.00150 |
| 1.402 | 10.027 | 5.04410 | .02920 | .01250 | -.00320 | .01940 | .00000 | .01500 | .01000 | -.00480 | -.00150 |
| 1.403 | 15.022 | 5.04740 | .02800 | .01250 | -.00320 | .01940 | .00000 | .01500 | .01000 | -.00480 | -.00150 |
| 1.403 | 18.116 | 5.04790 | .02710 | .01540 | -.00600 | .02910 | .00000 | .01580 | .01580 | -.00480 | -.00730 |
| 1.403 | 22.818 | 5.05120 | .02610 | .01250 | -.00320 | .01940 | .00000 | .01500 | .01000 | -.00480 | -.00150 |
| | GRADIENT | .00038 | -.00038 | -.00000 | .00000 | .00000 | .00000 | -.00000 | -.00000 | .00000 | .00000 |

AMES 118-1-11 OAI45A 01

(C2F077) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

ALPHA =
 ELEVON =
 BDFLAP =
 RN/L =

BETA = 10.000
 AILRON = .000
 SPDBRK = .000
 5.000

PARAMETRIC DATA

RUN NO. 650/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|----------|---------|---------|---------|--------|--------|--------|--------|---------|--------|
| .600 | -14.965 | 10.08300 | .04300 | .01420 | -.00060 | .00970 | .00000 | .02000 | .00850 | -.00980 | .00850 |
| .600 | -10.754 | 10.08300 | .04000 | .01420 | -.00060 | .00970 | .00000 | .02000 | .00850 | -.00980 | .00850 |
| .598 | -4.924 | 10.08000 | .03660 | .01420 | -.00060 | .00970 | .00000 | .02000 | .00850 | -.00980 | .00850 |
| .598 | -2.434 | 10.08100 | .03460 | .01420 | -.00060 | .00970 | .00000 | .02000 | .00850 | -.00980 | .00850 |
| .598 | -1.103 | 10.08200 | .03280 | .01420 | -.00060 | .00970 | .00000 | .02000 | .00850 | -.00980 | .00850 |
| .598 | 2.522 | 10.08100 | .02990 | .01420 | -.00060 | .00970 | .00000 | .02000 | .00850 | -.00980 | .00850 |
| .598 | 4.996 | 10.08200 | .02760 | .01420 | -.00060 | .00970 | .00000 | .02000 | .00850 | -.00980 | .00850 |
| .597 | 10.027 | 10.08300 | .02350 | .01420 | -.00060 | .00970 | .00000 | .02000 | .00850 | -.00980 | .00850 |
| .597 | 14.996 | 10.08600 | .02040 | .01420 | -.00060 | .00970 | .00000 | .02000 | .00850 | -.00980 | .00850 |
| .597 | 17.170 | 10.08600 | .01920 | .01420 | -.00060 | .00970 | .00000 | .02000 | .00850 | -.00980 | .00850 |
| .598 | 22.818 | 10.08900 | .01560 | .01420 | -.00060 | .00970 | .00000 | .02000 | .00850 | -.00980 | .00850 |
| | GRADIENT | .00016 | -.00092 | -.00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.00000 | .00000 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1094

AMES 118-1-11 0A145A 01

(C2F077) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000 BETA = .000
ELEVON = .000 AILRON = .000
BDFLAP = .000 SPDBRK = .000
RN/L = 5.000

RUN NO. 638/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|----------|----------|---------|--------|---------|--------|--------|--------|--------|--------|---------|
| .900 | -14.960 | 10.14000 | .03960 | .01000 | -.00070 | .00970 | .00000 | .01000 | .01000 | .00010 | -.00150 |
| .900 | -10.736 | 10.13500 | .03730 | .01000 | -.00070 | .01940 | .00000 | .01000 | .01000 | .00010 | -.00150 |
| .900 | -4.947 | 10.13700 | .03410 | .01000 | -.00070 | .00970 | .00000 | .01000 | .01000 | .00010 | -.00150 |
| .898 | -2.434 | 10.13600 | .03300 | .00790 | -.00280 | .00970 | .00000 | .01000 | .00580 | .00010 | -.00580 |
| .900 | -.103 | 10.14200 | .03200 | .01000 | -.00070 | .00970 | .00000 | .01000 | .01000 | .00010 | -.00150 |
| .900 | 2.522 | 10.13800 | .03050 | .01000 | -.00070 | .00970 | .00000 | .01000 | .01000 | .00010 | -.00150 |
| .900 | 4.996 | 10.14300 | .02900 | .01000 | -.00070 | .00970 | .00000 | .01000 | .01000 | .00010 | -.00150 |
| .900 | 10.003 | 10.14500 | .02570 | .01000 | -.00070 | .00970 | .00000 | .01000 | .01000 | .00010 | -.00150 |
| .901 | 15.014 | 10.15000 | .02220 | .01000 | -.00070 | .00970 | .00000 | .01000 | .01000 | .00010 | -.00150 |
| .898 | 18.125 | 10.14500 | .02050 | .01000 | -.00070 | .00970 | .00000 | .01000 | .01000 | .00010 | -.00150 |
| .901 | 22.808 | 10.15100 | .01770 | .01000 | -.00070 | .00970 | .00000 | .01000 | .01000 | .00010 | -.00150 |
| | GRADIENT | .00056 | -.00051 | .00008 | .00008 | .00000 | .00000 | .00000 | .00017 | .00000 | .00017 |

RUN NO. 631/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|----------|----------|---------|---------|---------|---------|--------|--------|---------|---------|---------|
| .951 | -14.965 | 10.11200 | .03770 | .01960 | -.00600 | .00970 | .00000 | .02490 | .01430 | -.01470 | .00270 |
| .952 | -10.736 | 10.00500 | .03930 | .02170 | -.00390 | .00970 | .00000 | .02490 | .01850 | -.01470 | .00700 |
| .952 | -4.961 | 10.00700 | .03620 | .02170 | -.00390 | .00970 | .00000 | .02490 | .01850 | -.01470 | .00700 |
| .951 | -2.434 | 10.00600 | .03510 | .02170 | -.00390 | .00970 | .00000 | .02490 | .01850 | -.01470 | .00700 |
| .950 | -.110 | 10.00400 | .03480 | .02170 | -.00390 | .00970 | .00000 | .02490 | .01430 | -.01470 | .00270 |
| .952 | 2.522 | 10.00900 | .03380 | .01960 | -.00600 | .00970 | .00000 | .02490 | .01850 | -.01470 | .00700 |
| .950 | 4.996 | 10.00800 | .03240 | .02170 | -.00390 | .00970 | .00000 | .02490 | .01850 | -.01470 | .00700 |
| .952 | 10.019 | 10.01800 | .02910 | .02170 | -.00390 | .00970 | .00000 | .02490 | .01850 | -.01470 | .00700 |
| .951 | 15.014 | 10.01000 | .02590 | .02170 | -.00390 | .00970 | .00000 | .02490 | .01850 | -.01470 | .00700 |
| .951 | 18.098 | 10.01600 | .02410 | .02170 | -.00390 | .00970 | .00000 | .02490 | .01850 | -.01470 | .00270 |
| .950 | 22.818 | 10.01500 | .02160 | .01960 | -.00600 | .00970 | .00000 | .02490 | .01430 | -.01470 | -.00018 |
| | GRADIENT | .00021 | -.00036 | -.00009 | -.00009 | -.00040 | .00000 | .00000 | -.00017 | .00000 | .00018 |

(C2F077) (08 JUL 77)

AMES 118-1-11 DAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = .000
 RN/L = 5.000

RUN NO. 518/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|----------|---------|--------|---------|--------|--------|--------|---------|---------|---------|
| 1.202 | -14.965 | 10.06000 | .03230 | .02330 | -.00970 | .01940 | .00000 | .01500 | .03150 | -.00480 | -.01450 |
| 1.203 | -10.736 | 10.05900 | .03140 | .02290 | -.00930 | .01940 | .00000 | .02000 | .02580 | -.00980 | -.00880 |
| 1.201 | -4.947 | 10.06000 | .02950 | .02570 | -.01210 | .01940 | .00000 | .02000 | .03150 | -.00980 | -.01450 |
| 1.204 | -2.426 | 10.06000 | .02870 | .02330 | -.00970 | .01940 | .00000 | .01500 | .03150 | -.00480 | -.01450 |
| 1.204 | -1.110 | 10.06100 | .02740 | .02570 | -.01210 | .01940 | .00000 | .02000 | .03150 | -.00980 | -.01450 |
| 1.203 | 2.531 | 10.06200 | .02590 | .02570 | -.01210 | .01940 | .00000 | .02000 | .02580 | -.00980 | -.01450 |
| 1.202 | 5.014 | 10.06200 | .02470 | .02290 | -.00930 | .01940 | .00000 | .01500 | .02580 | -.00480 | -.00880 |
| 1.203 | 10.043 | 10.06500 | .02250 | .02040 | -.00680 | .01940 | .00000 | .02000 | .03150 | -.00980 | -.01450 |
| 1.203 | 15.014 | 10.06700 | .02120 | .02570 | -.01210 | .02910 | .00000 | .01500 | .02580 | -.00480 | -.00880 |
| 1.202 | 18.107 | 10.07000 | .02040 | .02040 | -.00680 | .01940 | .00000 | .01500 | .03150 | -.00480 | -.01450 |
| 1.202 | 22.827 | 10.07300 | .01890 | .02330 | -.00970 | .01940 | .00000 | .01500 | .03150 | -.00480 | -.01450 |
| 1.203 | GRADIENT | .00028 | -.00049 | .00009 | -.00009 | .00000 | .00000 | .00019 | -.00000 | -.00019 | .00000 |

RUN NO. 607/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|----------|---------|--------|---------|--------|--------|--------|--------|---------|---------|
| 1.402 | -14.970 | 9.99500 | .02240 | .01040 | -.00530 | .01940 | .00000 | .01500 | .00580 | -.00480 | -.00580 |
| 1.401 | -10.745 | 9.99400 | .02140 | .01040 | -.00530 | .02910 | .00000 | .01500 | .00580 | -.00480 | -.00580 |
| 1.402 | -4.947 | 9.99310 | .01790 | .01040 | -.00530 | .01940 | .00000 | .01500 | .00580 | -.00480 | -.00580 |
| 1.402 | -2.451 | 9.99380 | .01780 | .01040 | -.00530 | .01940 | .00000 | .01500 | .00580 | -.00480 | -.00580 |
| 1.403 | -1.103 | 9.99290 | .01720 | .01040 | -.00530 | .01940 | .00000 | .01500 | .00580 | -.00480 | -.00580 |
| 1.403 | 2.496 | 9.99510 | .01570 | .01040 | -.00530 | .01940 | .00000 | .01500 | .00580 | -.00480 | -.00580 |
| 1.404 | 5.014 | 9.99470 | .01450 | .01040 | -.00530 | .02910 | .00000 | .01500 | .00580 | -.00480 | -.00580 |
| 1.404 | 10.027 | 9.99550 | .01220 | .01040 | -.00530 | .01940 | .00000 | .01500 | .00580 | -.00480 | -.00580 |
| 1.403 | 15.014 | 10.00000 | .01150 | .01250 | -.00320 | .01940 | .00000 | .01500 | .01000 | -.00480 | -.00150 |
| 1.403 | 18.107 | 10.00300 | .01080 | .01250 | -.00320 | .01940 | .00000 | .01500 | .01000 | -.00480 | -.00150 |
| 1.403 | 22.827 | 10.00600 | .00980 | .01250 | -.00320 | .01940 | .00000 | .01500 | .01000 | -.00480 | -.00150 |
| 1.403 | GRADIENT | .00021 | -.00029 | .00000 | -.00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(C2F078) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 BETA = .000
ELEVON = .000 AILRON = .000
BOFLAP = .000 SPDBRK = .000
RN/L = 5.000

RUN NO. 651/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | ELV-08 | AIL-08 | AIL-08 |
|------|----------|----------|---------|--------|---------|--------|--------|--------|---------|---------|
| .598 | -14.970 | 15.13300 | .07890 | .01420 | -.00060 | .00970 | .00000 | .00850 | -.00980 | .00850 |
| .599 | -10.782 | 15.13600 | .07320 | .01420 | -.00060 | .01940 | .00000 | .00850 | -.00980 | .00850 |
| .598 | -4.954 | 15.13600 | .07110 | .01420 | -.00060 | .00970 | .00000 | .00850 | -.00980 | .00850 |
| .598 | -2.434 | 15.13500 | .06870 | .01640 | -.00150 | .00970 | .00000 | .01280 | -.00980 | .01280 |
| .598 | -.110 | 15.13800 | .06560 | .01710 | -.00350 | .00970 | .00000 | .01430 | -.00980 | .00270 |
| .598 | 2.513 | 15.14200 | .06190 | .01710 | -.00350 | .00970 | .00000 | .01430 | -.00980 | .00270 |
| .598 | 5.024 | 15.14200 | .05960 | .01420 | -.00060 | .00970 | .00000 | .00850 | -.00980 | .00850 |
| .598 | 10.003 | 15.14300 | .05380 | .01420 | -.00060 | .00970 | .00000 | .00850 | -.00980 | .00850 |
| .598 | 15.022 | 15.14700 | .04940 | .01420 | -.00060 | .00970 | .00000 | .00850 | -.00980 | .00850 |
| .598 | 18.107 | 15.14800 | .04660 | .01420 | -.00060 | .00970 | .00000 | .00850 | -.00980 | .00850 |
| .598 | 22.818 | 15.14900 | .04340 | .01420 | -.00060 | .00970 | .00000 | .00850 | -.00980 | .00850 |
| .598 | GRADIENT | .00036 | -.00124 | .00038 | -.00055 | .00000 | .00000 | .00076 | .00000 | -.00110 |

RUN NO. 639/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | ELV-08 | AIL-08 | AIL-08 |
|------|----------|----------|---------|---------|---------|--------|--------|---------|--------|---------|
| .900 | -14.970 | 15.20500 | .06300 | .01220 | .00140 | .00970 | .00000 | .01430 | .00010 | .00270 |
| .900 | -10.780 | 15.20100 | .05850 | .01430 | .00360 | .01940 | .00000 | .01850 | .00010 | .00700 |
| .900 | -4.954 | 15.20600 | .05390 | .01430 | .00360 | .00970 | .00000 | .01850 | .00010 | .00700 |
| .901 | -2.426 | 15.20300 | .05350 | .01220 | .00140 | .00970 | .00000 | .01430 | .00010 | .00270 |
| .899 | -.096 | 15.19900 | .05260 | .01220 | .00140 | .01940 | .00000 | .01430 | .00010 | .00270 |
| .900 | 2.488 | 15.20500 | .04990 | .01220 | .00140 | .00970 | .00000 | .01430 | .00010 | .00270 |
| .893 | 5.024 | 15.20400 | .04510 | .01220 | .00140 | .00970 | .00000 | .01430 | .00010 | .00270 |
| .901 | 10.011 | 15.21200 | .04510 | .01220 | .00140 | .00970 | .00000 | .01430 | .00010 | .00270 |
| .899 | 15.014 | 15.20900 | .03950 | .01220 | .00140 | .00970 | .00000 | .01430 | .00010 | .00270 |
| .900 | 18.107 | 15.21500 | .03660 | .01220 | .00140 | .00970 | .00000 | .01430 | .00010 | .00270 |
| .900 | 22.835 | 15.21800 | .03320 | .01220 | .00140 | .00970 | .00000 | .01430 | .00010 | .00270 |
| .900 | GRADIENT | -.00027 | -.00053 | -.00026 | -.00027 | .00037 | .00000 | -.00051 | .00000 | -.00052 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA
ANES 118-1-11 OAI45A 01

PAGE 1097
(C2F078) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 15.000 BETA = .000
ELEVON = .000 AILRON = .000
BDFLAP = .000 SPDBRK = .000
RN/L = 5.000

RUN NO. 619/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|----------|---------|--------|---------|--------|--------|--------|---------|---------|--------|
| 1.202 | -14.970 | 15.07800 | .04270 | .01000 | -.00490 | .00970 | .00000 | .02000 | .00000 | -.00980 | .00000 |
| 1.201 | -10.771 | 15.07900 | .04260 | .01000 | -.00490 | .01940 | .00000 | .02000 | .00000 | -.00980 | .00000 |
| 1.203 | -4.917 | 15.07400 | .04070 | .01000 | -.00490 | .00970 | .00000 | .02000 | .00000 | -.00980 | .00000 |
| 1.203 | -2.426 | 15.07900 | .03870 | .01000 | -.00490 | .00970 | .00000 | .02000 | .00000 | -.00980 | .00000 |
| 1.204 | -1.110 | 15.07900 | .03690 | .01000 | -.00490 | .00970 | .00000 | .02000 | .00000 | -.00980 | .00000 |
| 1.203 | 2.505 | 15.08400 | .03350 | .01000 | -.00490 | .00970 | .00000 | .02000 | .00000 | -.00980 | .00000 |
| 1.204 | 5.042 | 15.08100 | .03400 | .01000 | -.00490 | .01940 | .00000 | .02000 | .00000 | -.00980 | .00000 |
| 1.202 | 10.019 | 15.08600 | .03080 | .01000 | -.00490 | .00970 | .00000 | .02000 | .00000 | -.00980 | .00000 |
| 1.202 | 15.014 | 15.08900 | .02810 | .01000 | -.00220 | .00970 | .00000 | .02000 | -.00530 | -.00980 | .00530 |
| 1.202 | 18.116 | 15.09000 | .02700 | .00730 | -.00220 | .01940 | .00000 | .02000 | -.00530 | -.00980 | .00530 |
| 1.202 | 22.836 | 15.09500 | .02520 | .00730 | -.00220 | .00970 | .00000 | .02000 | -.00530 | -.00980 | .00530 |
| 1.202 | GRADIENT | .00123 | -.00095 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 |

RUN NO. 608/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|----------|---------|--------|---------|---------|--------|---------|---------|---------|--------|
| 1.395 | -14.976 | 14.97800 | .02600 | .01460 | -.00100 | .01940 | .00000 | .01500 | .01430 | -.00480 | .00270 |
| 1.394 | -10.727 | 14.97700 | .02370 | .01460 | -.00100 | .02910 | .00000 | .01500 | .01430 | -.00480 | .00270 |
| 1.395 | -4.939 | 14.97400 | .02270 | .01460 | -.00100 | .01940 | .00000 | .01500 | .01430 | -.00480 | .00270 |
| 1.396 | -2.426 | 14.97700 | .02120 | .01460 | -.00100 | .01940 | .00000 | .01500 | .01430 | -.00480 | .00270 |
| 1.395 | -1.110 | 14.98000 | .01910 | .01460 | -.00100 | .01940 | .00000 | .01500 | .01430 | -.00480 | .00270 |
| 1.395 | 2.505 | 14.98300 | .01690 | .01460 | -.00100 | .00970 | .00000 | .01500 | .01430 | -.00480 | .00270 |
| 1.395 | 5.014 | 14.97800 | .02040 | .01460 | -.00100 | .01940 | .00000 | .01500 | .01430 | -.00480 | .00270 |
| 1.396 | 10.019 | 14.98800 | .01160 | .01460 | -.00100 | .00970 | .00000 | .01500 | .01430 | -.00480 | .00270 |
| 1.395 | 15.005 | 14.98600 | .01310 | .01460 | -.00100 | .01940 | .00000 | .01500 | .01430 | -.00480 | .00270 |
| 1.397 | 18.134 | 14.98200 | .01500 | .01460 | -.00100 | .01940 | .00000 | .01500 | .01430 | -.00480 | .00270 |
| 1.395 | 22.836 | 14.99100 | .01000 | .01460 | -.00100 | .01940 | .00000 | .01500 | .01430 | -.00480 | .00270 |
| 1.395 | GRADIENT | .00122 | -.00079 | .00000 | .00000 | -.00120 | .00000 | -.00000 | -.00000 | .00000 | .00000 |

OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

DATE 10 MAR 80

(C2F079) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000
ELEVON = .000
AILRON = .000
SPDBRK = .000
RUDDER = .000
RN/L = 5.000

RUN NO. 852/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|---------|---------|--------|--------|----------|---------|---------|---------|--------|
| .598 | -5.064 | -.00880 | .01420 | -.00060 | .00970 | .00000 | -4.93150 | .02000 | .00850 | -.00980 | .00850 |
| .600 | -.070 | .00670 | .01710 | -.00350 | .00970 | .00000 | -4.87910 | .02000 | .01430 | -.00980 | .00270 |
| .597 | 2.440 | .01140 | .01420 | -.00060 | .00970 | .00000 | -4.96900 | .02000 | .00850 | -.00980 | .00850 |
| .596 | 4.903 | .03830 | .01420 | -.00060 | .00970 | .00000 | -4.94650 | .02000 | .00850 | -.00980 | .00850 |
| .598 | 6.992 | .03560 | .01500 | -.00560 | .00970 | .00000 | -4.96150 | .02000 | .01000 | -.00980 | .00150 |
| .597 | 8.044 | .03500 | .01210 | -.00280 | .00970 | .00000 | -4.91660 | .02000 | .00430 | -.00980 | .00430 |
| .598 | 10.100 | .03470 | .01000 | -.00490 | .00970 | .00000 | -4.90160 | .02000 | .00000 | -.00980 | .00000 |
| .597 | 12.122 | .04060 | .01420 | -.00060 | .00970 | .00000 | -4.96150 | .02000 | .00850 | -.00980 | .00850 |
| .598 | 15.144 | .05720 | .01420 | -.00060 | .00970 | .00000 | -4.96150 | .02000 | .00850 | -.00980 | .00850 |
| | GRADIENT | .00634 | -.00058 | .00058 | .00000 | .00000 | -.01362 | -.00000 | -.00117 | .00000 | .00117 |

RUN NO. 640/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|--------|---------|--------|--------|----------|---------|--------|---------|--------|
| .900 | -5.118 | -.02600 | .01000 | -.00070 | .00970 | .00000 | -4.93900 | .01000 | .01000 | .00010 | .00150 |
| .899 | -.104 | .00590 | .01220 | .00140 | .00970 | .00000 | -4.93150 | .01000 | .01430 | .00010 | .00270 |
| .900 | 2.447 | .01020 | .01220 | .00140 | .00970 | .00000 | -4.93150 | .01000 | .01430 | .00010 | .00270 |
| .900 | 4.994 | .04030 | .01430 | .00360 | .00970 | .00000 | -4.93900 | .01000 | .01850 | .00010 | .00700 |
| .899 | 7.128 | .02520 | .00930 | .00430 | .00970 | .00000 | -4.93150 | .01000 | .00850 | .00010 | .00850 |
| .898 | 8.069 | .02760 | .01220 | .00140 | .00970 | .00000 | -4.93900 | .01000 | .01430 | .00010 | .00270 |
| .899 | 10.117 | .02940 | .00710 | .00220 | .00970 | .00000 | -4.96150 | .01000 | .00430 | .00010 | .00430 |
| .901 | 12.151 | .02950 | .01000 | -.00070 | .00970 | .00000 | -4.95400 | .01000 | .01000 | .00010 | .00150 |
| .900 | 15.204 | .03770 | .01220 | .00140 | .00970 | .00000 | -4.93150 | .01000 | .01430 | .00010 | .00270 |
| | GRADIENT | .00675 | .00041 | .00043 | .00000 | .00000 | -.00147 | -.00000 | .00082 | -.00000 | .00084 |

RUN NO. 624/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|--------|---------|--------|--------|----------|---------|--------|---------|--------|
| .950 | -5.060 | -.03590 | .02000 | -.00640 | .00000 | .00000 | -4.95400 | .02000 | .02000 | -.00980 | .00300 |
| .952 | -.016 | .00650 | .01330 | -.00820 | .00000 | .00000 | -4.94650 | .01500 | .01150 | -.00480 | .01150 |
| .951 | 2.439 | .01980 | .01330 | -.00820 | .00000 | .00000 | -4.95400 | .01500 | .01150 | -.00480 | .01150 |
| .952 | 4.921 | .03000 | .01540 | -.00600 | .00000 | .00000 | -4.93900 | .01500 | .01580 | -.00480 | .00730 |
| .950 | 6.959 | .03990 | .01330 | -.00820 | .00000 | .00000 | -4.96150 | .01500 | .00580 | -.00480 | .00580 |
| .951 | 7.992 | .03610 | .01040 | -.00530 | .00000 | .00000 | -4.96150 | .01500 | .00580 | -.00480 | .00580 |
| .949 | 10.017 | .03470 | .01330 | -.00820 | .00970 | .00000 | -4.95400 | .01500 | .01150 | -.00480 | .01150 |
| .951 | 12.024 | .03020 | .01330 | -.00820 | .00970 | .00000 | -4.96900 | .01500 | .01150 | -.00480 | .01150 |
| .950 | 15.008 | .02920 | .01250 | -.00320 | .00970 | .00000 | -4.98400 | .01500 | .01000 | -.00480 | .00150 |
| | GRADIENT | .00476 | .00043 | .00045 | .00000 | .00000 | .00153 | -.00000 | .00087 | .00000 | .00085 |

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OAI45 TABULATED FORCE DATA

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(C2F079) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 610/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | AIL-1B | ELV-OB | AIL-OB |
|-------|----------|---------|---------|---------|--------|--------|----------|---------|---------|---------|---------|
| 1.203 | -5.094 | -.04590 | .00830 | -.00320 | .00970 | .00000 | -4.96900 | .00510 | .00510 | .01150 | -.01150 |
| 1.204 | -.036 | -.00750 | .00830 | -.00320 | .00970 | .00000 | -4.96900 | .00510 | .00510 | .01150 | -.01150 |
| 1.200 | 2.553 | .00230 | .00000 | .00000 | .00970 | .00000 | -4.96900 | .00510 | .00510 | .00510 | -.00510 |
| 1.198 | 5.040 | .03210 | .00830 | -.00320 | .00970 | .00000 | -4.96150 | .00510 | .00510 | .01150 | -.01150 |
| 1.198 | 7.095 | .02420 | .00830 | -.00320 | .00970 | .00000 | -4.95400 | .00510 | .00510 | .01150 | -.01150 |
| 1.199 | 8.144 | .02110 | .00540 | -.00030 | .00970 | .00000 | -4.94650 | .00510 | .00510 | .00580 | -.00580 |
| 1.197 | 10.103 | .02360 | .00290 | -.00290 | .00970 | .00000 | -4.93900 | .00510 | .00510 | .00070 | -.01080 |
| 1.198 | 12.096 | .01490 | .00000 | .00000 | .00970 | .00000 | -4.92400 | .00510 | .00510 | -.00510 | -.00510 |
| 1.199 | 15.027 | .01560 | .00260 | .00260 | .00970 | .00000 | -4.93150 | .01020 | .01020 | -.00510 | -.00510 |
| | GRADIENT | .00378 | -.00321 | .00124 | .00000 | .00000 | .00000 | -.00000 | -.00000 | -.00641 | .00247 |

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPOBRK = .000 RUDDER = -5.000
 RN/L = 5.000

RUN NO. 601/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | AIL-1B | ELV-OB | AIL-OB |
|-------|----------|---------|---------|---------|--------|--------|----------|---------|--------|---------|---------|
| 1.396 | -5.000 | -.03940 | .00970 | .00470 | .00970 | .00000 | -4.93900 | .01510 | .00520 | .00430 | .00430 |
| 1.400 | .053 | -.00250 | .01220 | .00230 | .00970 | .00000 | -4.94650 | .02010 | .00330 | .00430 | .00430 |
| 1.403 | 2.545 | .00450 | .00970 | .00470 | .00970 | .00000 | -4.93150 | .01510 | .00520 | .00430 | .00430 |
| 1.399 | 5.087 | .03470 | .01000 | .00010 | .00970 | .00000 | -4.93150 | .02010 | .00330 | .00000 | .00000 |
| 1.399 | 7.175 | .02840 | .01000 | .00010 | .00970 | .00000 | -4.93150 | .02010 | .00330 | .00000 | .00000 |
| 1.400 | 8.202 | .02440 | .00750 | -.00240 | .00970 | .00000 | -4.91500 | .01500 | .00330 | .00000 | .00000 |
| 1.397 | 10.250 | .02150 | .01290 | -.00270 | .00970 | .00000 | -4.91660 | .02010 | .00330 | .00580 | -.00580 |
| 1.397 | 12.290 | .01640 | .00750 | -.00240 | .00970 | .00000 | -4.82670 | .01500 | .00480 | .00000 | .00000 |
| 1.397 | 15.272 | .02460 | .00500 | -.00490 | .00970 | .00000 | -4.94650 | .01500 | .00480 | -.00510 | -.00510 |
| | GRADIENT | .00281 | -.00100 | .00096 | .00000 | .00000 | .00602 | -.00201 | .00197 | .00000 | .00000 |

DATE 10 MAR 80

OAI145 TABULATED FORCE DATA

PAGE 1100

AMES 11B-1-11 OAI145A 01

(C2F080) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = .000 RUDDER = -5.000
 RN/L = 5.000

RUN NO. 653/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|--------|---------|--------|---------|---------|--------|----------|--------|---------|--------|
| .598 | -6.051 | 5.08080 | .01210 | -.00280 | .00970 | .00000 | -4.90160 | .00430 | -.00980 | .00430 |
| .597 | -1.917 | 5.05800 | .01210 | -.00280 | .00970 | .00000 | -4.93150 | .00430 | -.00980 | .00430 |
| .598 | -872 | 5.02950 | .01210 | -.00280 | .00970 | .00000 | -4.97650 | .00430 | -.00980 | .00430 |
| .598 | .006 | 4.91170 | .01210 | -.00280 | .00970 | .00000 | -4.96900 | .00430 | -.00980 | .00430 |
| .598 | .499 | 5.12230 | .01210 | -.00280 | .00970 | .00000 | -4.93900 | .00430 | -.00980 | .00430 |
| .597 | 1.032 | 5.13650 | .01210 | -.00280 | .00000 | .00000 | -4.93900 | .00430 | -.00980 | .00430 |
| .597 | 2.102 | 5.13260 | .01210 | -.00280 | .00970 | .00000 | -4.95400 | .00430 | -.00980 | .00430 |
| .598 | 3.148 | 5.11600 | .01210 | -.00280 | .00970 | .00000 | -4.93900 | .00430 | -.00980 | .00430 |
| .597 | 4.179 | 5.11490 | .01210 | -.00280 | .00970 | .00000 | -4.93900 | .00430 | -.00980 | .00430 |
| .597 | 6.238 | 5.10700 | .01210 | -.00280 | .00970 | .00000 | -4.94650 | .00430 | -.00980 | .00430 |
| .598 | | .01896 | .00000 | -.00000 | -.00000 | .00000 | .00163 | .00000 | -.00000 | .00000 |

RUN NO. 641/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|--------|---------|--------|---------|--------|--------|----------|--------|--------|---------|
| .902 | -6.112 | 4.90180 | .01000 | -.00070 | .00970 | .00000 | -4.93150 | .01000 | .00010 | -.00150 |
| .901 | -1.952 | 4.88370 | .01000 | -.00070 | .00970 | .00000 | -4.93900 | .01000 | .00010 | -.00150 |
| .900 | -902 | 4.87370 | .01000 | -.00070 | .00970 | .00000 | -4.93150 | .01000 | .00010 | -.00150 |
| .900 | .158 | 4.91470 | .01000 | -.00070 | .00970 | .00000 | -4.93150 | .01000 | .00010 | -.00150 |
| .900 | .638 | 4.89420 | .01000 | -.00070 | .00970 | .00000 | -4.93150 | .01000 | .00010 | -.00150 |
| .900 | 1.163 | 4.88640 | .01000 | -.00070 | .00970 | .00000 | -4.93900 | .01000 | .00010 | -.00150 |
| .899 | 2.215 | 4.86470 | .01000 | -.00070 | .00970 | .00000 | -4.93900 | .01000 | .00010 | -.00150 |
| .899 | 3.264 | 4.84940 | .01000 | -.00070 | .00970 | .00000 | -4.95400 | .01000 | .00010 | -.00150 |
| .898 | 4.302 | 4.83450 | .01000 | -.00070 | .00970 | .00000 | -4.96150 | .01000 | .00010 | -.00150 |
| .895 | 6.375 | 4.80280 | .01000 | -.00070 | .00970 | .00000 | -4.96150 | .01000 | .00000 | -.00000 |
| | | -.00869 | .00000 | -.00000 | .00000 | .00000 | -.00239 | .00000 | .00000 | -.00000 |

RUN NO. 625/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|--------|---------|--------|---------|--------|--------|----------|--------|---------|---------|
| .950 | -6.137 | 5.07650 | .01040 | -.00530 | .00970 | .00000 | -4.93900 | .01500 | -.00480 | -.00580 |
| .952 | -2.039 | 5.06930 | .01250 | -.00320 | .00970 | .00000 | -4.94650 | .01500 | -.00480 | -.00150 |
| .951 | -.988 | 5.07490 | .01250 | -.00320 | .00970 | .00000 | -4.95400 | .01500 | -.00480 | -.00150 |
| .950 | .072 | 5.01290 | .01460 | -.00100 | .00970 | .00000 | -4.96900 | .01500 | -.00480 | .00270 |
| .950 | .576 | 5.03040 | .01460 | -.00100 | .00970 | .00000 | -4.96150 | .01500 | -.00480 | .00270 |
| .950 | 1.109 | 5.02220 | .01460 | -.00100 | .00970 | .00000 | -4.97650 | .01500 | -.00480 | .00270 |
| .950 | 2.151 | 5.02130 | .01460 | -.00180 | .00970 | .00000 | -4.96900 | .01500 | -.00480 | .00850 |
| .949 | 3.185 | 5.01790 | .01390 | .00400 | .00970 | .00000 | -4.96900 | .01500 | -.00480 | .01280 |
| .950 | 4.225 | 5.01210 | .01390 | .00400 | .00970 | .00000 | -4.98400 | .01500 | -.00480 | .01280 |
| .947 | 6.313 | 4.99700 | .01390 | .00400 | .00970 | .00000 | -4.98400 | .01500 | -.00480 | .00215 |
| | | -.00943 | .00008 | .00108 | .00000 | .00000 | -.00415 | .00000 | .00000 | .00000 |

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OAI45 TABULATED FORCE DATA

PAGE 1101

AMES 118-1-11 OAI45A 01

(C2F080) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 611/ 0 RN/L = 5.06 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|---------|--------|--------|--------|--------|----------|--------|---------|---------|
| 1.204 | -6.098 | 5.10690 | .00800 | .00220 | .00970 | .00000 | -4.93900 | .00580 | .01020 | -.00580 |
| 1.204 | -1.950 | 5.06880 | .00510 | .00000 | .00970 | .00000 | -4.93900 | .00000 | .01020 | .00000 |
| 1.201 | -.910 | 5.04620 | .00250 | .00250 | .00970 | .00000 | -4.95400 | .00000 | .00510 | .00000 |
| 1.202 | .155 | 5.06480 | .00250 | .00250 | .00970 | .00000 | -4.95400 | .00000 | .00510 | .00000 |
| 1.200 | .653 | 5.08950 | .00250 | .00250 | .00970 | .00000 | -4.94650 | .00000 | .00510 | .00000 |
| 1.203 | 1.163 | 5.07500 | .00250 | .00250 | .00970 | .00000 | -4.95400 | .00000 | .00510 | .00000 |
| 1.201 | 2.212 | 5.05090 | .00470 | .00470 | .00970 | .00000 | -4.94650 | .00430 | .00510 | .00430 |
| 1.201 | 3.258 | 5.03540 | .00680 | .00680 | .00970 | .00000 | -4.95400 | .00850 | .00510 | .00850 |
| 1.200 | 4.298 | 5.02350 | .00250 | .00250 | .00970 | .00000 | -4.96150 | .00000 | .00510 | .00000 |
| 1.198 | 6.367 | 5.00350 | .00250 | .00250 | .00970 | .00000 | -4.96150 | .00000 | .00510 | .00000 |
| | GRADIENT | -.00640 | .00012 | .00012 | .00000 | .00000 | -.00213 | .00075 | -.00051 | .00075 |

PARAMETRIC DATA

ALPHA = 5.000
 ELEVON = .000
 AILRON = .000
 SPDBRK = .000
 RUDDER = -5.000
 RN/L = 5.000

FUN NO. 602/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|---------|---------|---------|---------|--------|----------|---------|---------|---------|
| 1.404 | -6.144 | 5.08200 | .01460 | -.00100 | .01940 | .00000 | -4.93900 | .01430 | -.00480 | .00270 |
| 1.405 | -1.968 | 5.04650 | .01460 | -.00100 | .01940 | .00000 | -4.94650 | .01430 | -.00480 | .00270 |
| 1.403 | -.924 | 5.02200 | .01040 | -.00530 | .01940 | .00000 | -4.95400 | .00580 | -.00480 | -.00580 |
| 1.402 | .156 | 5.03410 | .01040 | -.00530 | .01940 | .00000 | -4.95400 | .00580 | -.00480 | -.00580 |
| 1.403 | .648 | 5.04330 | .01040 | -.00530 | .01940 | .00000 | -4.95400 | .00580 | -.00480 | -.00580 |
| 1.402 | 1.169 | 5.03120 | .00960 | -.00030 | .01940 | .00000 | -4.94650 | .00430 | -.00480 | .00430 |
| 1.403 | 2.226 | 5.01080 | .00960 | -.00030 | .01940 | .00000 | -4.93150 | .00430 | -.00480 | .00430 |
| 1.402 | 3.277 | 4.99520 | .00960 | -.00030 | .01940 | .00000 | -4.93150 | .00430 | -.00480 | .00430 |
| 1.403 | 4.326 | 4.98380 | .01180 | .00180 | .00970 | .00000 | -4.98890 | .00850 | -.00480 | .00850 |
| 1.400 | 6.404 | 4.96520 | .01600 | .00610 | .01940 | .00000 | -4.97650 | .01700 | -.00480 | .01700 |
| | GRADIENT | -.00934 | -.00036 | .00084 | -.00100 | .00000 | -.00301 | -.00073 | -.00000 | .00172 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

PAGE 1102
(C2F081) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
AILRON = .000 BOFLAP = .000
SPDBRK = .000 RUDDER = -22.800
RN/L = 5.000

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-08 | AIL-08 |
|------|----------|---------|--------|---------|--------|--------|-----------|---------|---------|
| .598 | -6.048 | 5.03170 | .01210 | -.00280 | .00970 | .00000 | -22.74700 | .00430 | .00430 |
| .598 | -1.896 | 5.06210 | .01210 | -.00280 | .00970 | .00000 | -22.74700 | .00430 | .00430 |
| .598 | -1.853 | 5.02960 | .01210 | -.00280 | .00970 | .00000 | -22.74700 | .00430 | .00430 |
| .598 | .041 | 4.96050 | .01460 | -.00520 | .00970 | .00000 | -22.74700 | .00430 | .00430 |
| .598 | .533 | 5.10640 | .01460 | -.00520 | .00970 | .00000 | -22.74700 | .00430 | .00430 |
| .598 | 1.057 | 5.15370 | .01460 | -.00520 | .00970 | .00000 | -22.74700 | .00430 | .00430 |
| .598 | 2.124 | 5.15650 | .01460 | -.00520 | .00970 | .00000 | -22.74700 | .00430 | .00430 |
| .598 | 3.168 | 5.14410 | .01460 | -.00520 | .00970 | .00000 | -22.74700 | .00430 | .00430 |
| .598 | 4.196 | 5.14340 | .01250 | -.00740 | .00970 | .00000 | -22.73900 | .00000 | .00000 |
| .597 | 6.252 | 5.13430 | .01250 | -.00740 | .00970 | .00000 | -22.73900 | .00000 | .00000 |
| | GRADIENT | .02314 | .00019 | -.00064 | .00000 | .00000 | .00087 | -.00047 | -.00047 |

RUN NO. 654/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 642/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-08 | AIL-08 |
|------|----------|---------|--------|---------|---------|--------|-----------|--------|--------|
| .900 | -6.073 | 4.90100 | .01000 | -.00070 | .00970 | .00000 | -22.75600 | .01000 | .00150 |
| .901 | -1.930 | 4.90020 | .01000 | -.00070 | .00970 | .00000 | -22.75600 | .01000 | .00150 |
| .899 | -1.879 | 4.88730 | .01000 | -.00070 | .01940 | .00000 | -22.75600 | .01000 | .00150 |
| .900 | .186 | 4.92130 | .01000 | -.00070 | .01940 | .00000 | -22.75600 | .01000 | .00150 |
| .900 | .666 | 4.90020 | .01000 | -.00070 | .01940 | .00000 | -22.75600 | .01000 | .00150 |
| .899 | 1.193 | 4.89540 | .01000 | -.00070 | .01940 | .00000 | -22.75600 | .01000 | .00150 |
| .900 | 2.238 | 4.87410 | .01000 | -.00070 | .00970 | .00000 | -22.75600 | .01000 | .00150 |
| .899 | 3.281 | 4.85990 | .01000 | -.00070 | .00970 | .00000 | -22.75600 | .01000 | .00150 |
| .898 | 4.319 | 4.84620 | .01000 | -.00070 | .00970 | .00000 | -22.75600 | .01000 | .00150 |
| .899 | 6.392 | 4.81350 | .01000 | -.00070 | .01940 | .00000 | -22.76400 | .01000 | .00150 |
| | GRADIENT | -.00922 | .00000 | -.00000 | -.00072 | .00000 | -.00000 | .00000 | .00000 |

RUN NO. 612/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 612/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-08 | AIL-08 |
|-------|----------|---------|---------|---------|---------|--------|-----------|---------|---------|
| 1.205 | -6.054 | 5.11750 | .00250 | .00250 | .00970 | .00000 | -22.73900 | .00000 | .00000 |
| 1.204 | -1.929 | 5.09260 | .00680 | .00680 | .00970 | .00000 | -22.73900 | .00850 | .00850 |
| 1.202 | -.893 | 5.07010 | .00680 | .00680 | .00970 | .00000 | -22.73900 | .00850 | .00850 |
| 1.202 | .092 | 4.77710 | .01150 | .01150 | .00970 | .00000 | -22.74700 | .01700 | .01700 |
| 1.203 | .652 | 4.59490 | .01100 | .01100 | .00970 | .00000 | -22.74700 | .02130 | .02130 |
| 1.203 | 1.133 | 4.58540 | .01320 | .01320 | .00000 | .00000 | -22.74700 | .00430 | .00430 |
| 1.201 | 2.137 | 5.11100 | .00470 | .00470 | .00000 | .00000 | -22.74700 | .00430 | .00430 |
| 1.200 | 3.174 | 5.11570 | .00470 | .00470 | .00000 | .00000 | -22.74700 | .00850 | .00850 |
| 1.202 | 4.215 | 5.12330 | .00680 | .00680 | .00000 | .00000 | -22.74700 | .02550 | .02550 |
| 1.199 | 6.313 | 5.12730 | .01530 | .01530 | .00000 | .00000 | -22.74700 | -.00059 | -.00059 |
| | GRADIENT | .02382 | -.00043 | -.00043 | -.00210 | .00000 | -.00135 | -.00017 | -.00017 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1103

AMES 118-1-11 OAI45A 01

(CF081) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 603/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = .000 RUDDER = -22.800
 RN/L = 5.000

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|---------|--------|--------|---------|--------|-----------|--------|--------|---------|--------|
| 1.400 | -5.102 | 5.08850 | .01890 | .00320 | .01940 | .00000 | -22.73900 | .01500 | .02280 | -.00480 | .01120 |
| 1.403 | -1.957 | 5.05860 | .01890 | .00320 | .01940 | .00000 | -22.73100 | .01500 | .02280 | -.00480 | .01120 |
| 1.403 | -1.957 | 5.03400 | .01390 | .00400 | .01940 | .00000 | -22.73100 | .01500 | .01280 | -.00480 | .01280 |
| 1.402 | .164 | 5.05310 | .01600 | .00610 | .01940 | .00000 | -22.73100 | .01500 | .01700 | -.00480 | .01700 |
| 1.403 | .663 | 5.06180 | .01600 | .00610 | .01940 | .00000 | -22.73100 | .01500 | .01700 | -.00480 | .01700 |
| 1.403 | 1.186 | 5.04910 | .01600 | .00610 | .01940 | .00000 | -22.73100 | .01500 | .01700 | -.00480 | .01700 |
| 1.403 | 2.239 | 5.02860 | .01600 | .00610 | .01940 | .00000 | -22.73100 | .01500 | .01700 | -.00480 | .01700 |
| 1.403 | 3.285 | 5.01310 | .01600 | .00610 | .00970 | .00000 | -22.73100 | .01500 | .02130 | -.00480 | .02130 |
| 1.402 | 4.332 | 5.00210 | .01810 | .00820 | .00970 | .00000 | -22.73100 | .01500 | .02550 | -.00480 | .02550 |
| 1.402 | 6.410 | 4.98310 | .02030 | .01030 | .00970 | .00000 | -22.73100 | .01500 | .00014 | -.00000 | .00130 |
| 1.402 | GRADIENT | -.00838 | .00007 | .00064 | -.00168 | .00000 | -.00000 | .00000 | | | |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 662/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

AMES 118-1-11 OAI45A 01

(CF082) (08 JUL 77)

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = -11.700
 SPOBRK = .000 RUDDER = .000
 RN/L = 5.000

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|--------|---------|---------|-----------|--------|---------|---------|---------|---------|---------|
| .397 | -5.052 | .02740 | .01920 | -.00140 | -11.64200 | .00000 | -.09620 | .02000 | .01850 | -.00980 | .00700 |
| .397 | -.099 | .00020 | .01710 | -.00350 | -11.64200 | .00000 | -.10290 | .02000 | .01430 | -.00980 | .00270 |
| .397 | 2.419 | .00480 | .01500 | -.00560 | -11.64200 | .00000 | -.10290 | .02000 | .01000 | -.00980 | -.00150 |
| .397 | 4.925 | .03460 | .01290 | -.00780 | -11.64200 | .00000 | -.10290 | .02000 | .00580 | -.00980 | -.00580 |
| .396 | 6.963 | .03220 | .01500 | -.00560 | -11.64200 | .00000 | -.10290 | .02000 | .01000 | -.00980 | -.00150 |
| .396 | 7.966 | .04060 | .02350 | .00290 | -11.64200 | .00000 | -.10290 | .02000 | .02700 | -.00980 | .01550 |
| .396 | 10.013 | .05020 | .02350 | .00290 | -11.64200 | .00000 | -.10290 | .02000 | .02700 | -.00980 | .01550 |
| .397 | 15.116 | .07450 | .02140 | .00070 | -11.64200 | .00000 | -.10290 | .02000 | .02280 | -.00980 | .01120 |
| | GRADIENT | .00684 | -.00084 | -.00085 | -.00000 | .00000 | .00000 | -.00000 | -.00169 | .00000 | -.00169 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

PAGE 1104
(C2F082) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

RUN NO. 657/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-08 | AIL-08 | AIL-0B |
|------|----------|----------|---------|---------|-----------|--------|---------|---------|---------|---------|
| .599 | -4.913 | -0.02100 | .01250 | -.00740 | -11.64200 | .00000 | -.10290 | .00000 | -.01470 | .00000 |
| .600 | .006 | .00510 | .00750 | -.00740 | -11.64200 | .00000 | -.10290 | -.00510 | -.00980 | -.00510 |
| .598 | 2.457 | .01090 | .00490 | -.00990 | -11.64200 | .00000 | -.10290 | -.01010 | -.00980 | -.01010 |
| .597 | 4.962 | .03600 | .00240 | -.01250 | -11.64200 | .00000 | -.10290 | -.01520 | -.00980 | -.01520 |
| .596 | 7.021 | .03170 | .01210 | -.00280 | -11.64200 | .00000 | -.09620 | .00430 | -.00980 | .00430 |
| .597 | 8.044 | .03200 | .01210 | -.00280 | -11.64200 | .00000 | -.09620 | .00430 | -.00980 | .00430 |
| .597 | 10.096 | .03030 | .01210 | -.00280 | -11.64200 | .00000 | -.09620 | .00430 | -.00980 | .00430 |
| .598 | 15.145 | .05290 | .01500 | -.00560 | -11.56600 | .00000 | -.10960 | .01000 | -.00980 | .00150 |
| | GRADIENT | .00543 | -.00103 | -.00050 | -.00000 | .00000 | -.00000 | -.00153 | .00051 | -.00153 |

AMES 118-1-11 OAI45A 01

(C2F083) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

RUN NO. 663/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-08 | AIL-08 | AIL-0B |
|------|----------|----------|--------|---------|-----------|--------|---------|--------|---------|---------|
| .397 | -5.007 | 18.79700 | .01850 | .00360 | -11.64200 | .00000 | -.10290 | .01700 | -.00980 | .01700 |
| .396 | -3.993 | 18.79300 | .01850 | .00360 | -11.64200 | .00000 | -.10290 | .01700 | -.00980 | .01700 |
| .396 | -1.920 | 18.31400 | .01850 | .00360 | -11.64200 | .00000 | -.10290 | .02280 | -.00980 | .01200 |
| .396 | -.884 | 18.31500 | .02140 | .00070 | -11.64200 | .00000 | -.10290 | .02280 | -.00980 | .01120 |
| .397 | .144 | 18.82100 | .02140 | .00070 | -11.64200 | .00000 | -.10290 | .02280 | -.00980 | .01120 |
| .397 | 1.173 | 18.60600 | .02140 | .00070 | -11.64200 | .00000 | -.10290 | .02280 | -.00980 | .01120 |
| .397 | 2.191 | 18.73900 | .02140 | .00070 | -11.64200 | .00000 | -.10290 | .01850 | -.00980 | .00700 |
| .397 | 4.255 | 18.76700 | .01920 | -.00140 | -11.64200 | .00000 | -.10290 | .01850 | -.00980 | .00700 |
| .397 | 5.287 | 18.74900 | .01920 | -.00140 | -11.64200 | .00000 | -.10960 | .00041 | -.00980 | .00000 |
| | GRADIENT | -.00375 | .00020 | -.00060 | -.00000 | .00000 | -.00000 | .00000 | .00000 | -.00119 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1105

AMES 118-1-11 OAI45A 01

(C2F083) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 658/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | ELV-08 | AIL-1B | AIL-08 |
|------|----------|----------|--------|---------|-----------|--------|---------|--------|---------|---------|---------|
| .597 | -5.019 | 19.10500 | .01530 | -.01020 | -11.64200 | .00000 | -.04900 | .02490 | .00580 | -.01470 | -.00580 |
| .598 | -4.000 | 19.11900 | .01290 | -.00780 | -11.65300 | .00000 | -.04220 | .02000 | .00580 | -.00980 | -.00580 |
| .597 | -1.936 | 19.12000 | .01290 | -.00780 | -11.64200 | .00000 | -.05570 | .02000 | .00580 | -.00980 | -.00580 |
| .598 | -.896 | 19.12500 | .01290 | -.00780 | -11.65300 | .00000 | -.05570 | .02000 | .00580 | -.00980 | -.00580 |
| .599 | 1.138 | 19.12100 | .01290 | -.00780 | -11.64200 | .00000 | -.05570 | .02000 | .00580 | -.00980 | -.00580 |
| .599 | 1.175 | 19.10900 | .01290 | -.00780 | -11.64200 | .00000 | -.05570 | .02000 | .00580 | -.00980 | -.00580 |
| .599 | 2.201 | 19.09300 | .01290 | -.00780 | -11.64200 | .00000 | -.05570 | .02000 | .00580 | -.00980 | -.00580 |
| .599 | 4.276 | 19.06600 | .01290 | -.00780 | -11.65300 | .00000 | -.06240 | .02000 | .00580 | -.00980 | -.00580 |
| .598 | 5.307 | 19.05300 | .01500 | -.00560 | -11.64200 | .00000 | -.06240 | .02000 | .01000 | -.00980 | -.00150 |
| | GRADIENT | -.00649 | .00000 | -.00000 | .00025 | .00000 | -.00186 | .00000 | -.00000 | .00000 | .00000 |

PARAMETRIC DATA

ALPHA = 19.000 ELEVON = .000
 AILRON = .000 BDFLAP = -11.700
 SPDBRK = .000 RUDDER = .000
 RN/L = 5.000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 906/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | ELV-08 | AIL-1B | AIL-08 |
|------|----------|----------|--------|---------|--------|---------|---------|--------|--------|---------|---------|
| .599 | -5.219 | 19.10500 | .01460 | -.00020 | .00970 | 7.50000 | -.11640 | .02500 | .00430 | -.00470 | .00430 |
| .599 | -2.240 | 19.11900 | .01460 | -.00020 | .00970 | 7.50000 | -.11640 | .02500 | .00430 | -.00470 | .00430 |
| .597 | 2.284 | 19.12000 | .01750 | -.00310 | .00970 | 7.50000 | -.11640 | .02500 | .01000 | -.00470 | -.00150 |
| .601 | 4.818 | 19.12500 | .01680 | -.00190 | .00970 | 7.50000 | -.10960 | .02500 | .00850 | -.00470 | .00850 |
| .598 | 7.859 | 19.12100 | .01680 | -.00190 | .00970 | 7.50000 | -.10960 | .02500 | .00850 | -.00470 | .00850 |
| .596 | 9.960 | 19.10900 | .01680 | -.00190 | .00970 | 7.50000 | -.10960 | .02500 | .00850 | -.00470 | .00850 |
| .596 | 11.968 | 19.09300 | .01680 | -.00190 | .00970 | 7.50000 | -.10960 | .02500 | .00850 | -.00470 | .00850 |
| .599 | 14.976 | 19.06600 | .01930 | -.00060 | .00970 | 7.50000 | -.10960 | .03000 | .00850 | -.00960 | .00850 |
| .598 | 16.975 | 19.05300 | .01670 | -.00310 | .00970 | 7.50000 | -.10960 | .02490 | .00850 | -.01470 | .00850 |
| .597 | 18.969 | 19.04000 | .02430 | -.00130 | .00970 | 7.50000 | -.10960 | .03000 | .01850 | -.00960 | .00700 |
| | GRADIENT | .00767 | .00043 | .00042 | .00000 | .00000 | .00135 | .00000 | .00063 | .00000 | .00063 |

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 7.500 RUDDER = .000
 RN/L = 5.000

AMES 118-1-11 OAI45A 01

(C2F084) (08 JUL 77)

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

AMES 118-1-11 0A145A 01

(C2F084) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000
 ELEVON = .000
 AILRON = .000
 SPDBRK = 7.500
 RUDDER = 5.000

RUN NO. 904/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|--------|---------|--------|---------|---------|--------|---------|---------|
| .799 | -5.257 | -.03000 | .01500 | -.00480 | .00000 | 7.50000 | -.12310 | .00000 | -.00960 | .00000 |
| .802 | -.228 | .00330 | .01500 | -.00480 | .00000 | 7.50000 | -.12310 | .00000 | -.00960 | .00000 |
| .797 | 2.285 | .00890 | .01500 | -.00480 | .00000 | 7.50000 | -.12310 | .00000 | -.00960 | .00000 |
| .798 | 4.818 | .04430 | .01500 | -.00480 | .00000 | 7.50000 | -.12310 | .00000 | -.00960 | .00000 |
| .799 | 7.935 | .03310 | .01500 | -.00480 | .00000 | 7.50000 | -.12310 | .00000 | -.00960 | .00000 |
| .799 | 9.988 | .03710 | .01500 | -.00480 | .00000 | 7.50000 | -.12310 | .00580 | -.00960 | .00000 |
| .798 | 11.987 | .03770 | .01790 | -.00770 | .00000 | 7.50000 | -.14110 | .00580 | -.00960 | -.00580 |
| .799 | 15.038 | .05060 | .01790 | -.00560 | .00000 | 7.50000 | -.16800 | .01000 | -.00960 | -.00150 |
| .798 | 17.032 | .06300 | .02000 | -.01310 | .00000 | 7.50000 | -.23970 | .01150 | -.01470 | -.00150 |
| .798 | 18.998 | .11400 | .01820 | -.00000 | .00000 | 7.50000 | .00000 | .00000 | .00000 | .00000 |
| | GRADIENT | .00813 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 |

RUN NO. 901/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|--------|---------|--------|---------|---------|--------|---------|---------|
| .900 | -5.281 | -.03220 | .02040 | -.01020 | .00000 | 7.50000 | -.13210 | .00580 | -.01460 | -.00580 |
| .899 | -.261 | .00670 | .01790 | -.00770 | .00000 | 7.50000 | -.13210 | .00580 | -.00960 | -.00580 |
| .899 | 2.287 | .01640 | .02040 | -.01020 | .00000 | 7.50000 | -.13210 | .00580 | -.01460 | -.00580 |
| .900 | 4.844 | .04280 | .02040 | -.01020 | .00000 | 7.50000 | -.13210 | .00580 | -.01460 | -.00580 |
| .903 | 7.961 | .03520 | .02040 | -.01020 | .00000 | 7.50000 | -.13210 | .00580 | -.01460 | -.00580 |
| .899 | 9.988 | .03650 | .02040 | -.01020 | .00000 | 7.50000 | -.13210 | .00580 | -.01460 | -.00580 |
| .900 | 12.006 | .04230 | .02250 | -.00800 | .00000 | 7.50000 | -.13210 | .01000 | -.01460 | -.00150 |
| .903 | 15.065 | .07030 | .02250 | -.00800 | .00000 | 7.50000 | -.13210 | .01000 | -.01460 | -.00150 |
| .901 | 17.038 | .12150 | .02460 | -.00590 | .00970 | 7.50000 | -.13210 | .01430 | -.01460 | -.00270 |
| .902 | 19.016 | .00707 | .00049 | -.00049 | .00000 | .00000 | .00176 | .00000 | -.00098 | -.00000 |
| | GRADIENT | | | | | | | | | |

RUN NO. 899/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|--------|---------|--------|---------|---------|--------|---------|--------|
| .953 | -5.294 | -.01920 | .02180 | .00120 | .01940 | 7.50000 | -.10290 | .01950 | -.00470 | .00700 |
| .949 | -.273 | .00920 | .01960 | -.00100 | .01940 | 7.50000 | -.10290 | .01430 | -.00470 | .00270 |
| .951 | 2.304 | .01770 | .02180 | -.00120 | .01940 | 7.50000 | -.10960 | .01850 | -.00470 | .00270 |
| .951 | 4.859 | .04240 | .01960 | -.00100 | .02910 | 7.50000 | -.10960 | .01430 | -.00470 | .00270 |
| .952 | 7.988 | .03100 | .02430 | -.00130 | .01940 | 7.50000 | -.10960 | .01850 | -.00960 | .00700 |
| .950 | 10.022 | .03030 | .02210 | -.00340 | .02910 | 7.50000 | -.11640 | .01430 | -.00960 | .00270 |
| .952 | 12.038 | .03100 | .02430 | -.00130 | .02910 | 7.50000 | -.11640 | .01850 | -.00960 | .00700 |
| .951 | 15.065 | .03430 | .02430 | -.00130 | .02910 | 7.50000 | -.11640 | .01850 | -.00960 | .00700 |
| .946 | 17.045 | .05530 | .02430 | -.00130 | .02910 | 7.50000 | -.11640 | .01850 | -.00960 | .00700 |
| .950 | 18.994 | .10780 | .02380 | -.00170 | .02910 | 7.50000 | -.12310 | .02280 | -.01470 | .01120 |
| | GRADIENT | .00646 | .00000 | .00000 | .00189 | .00000 | -.00131 | .00000 | .00000 | .00000 |

0A145 TABULATED FORCE DATA

AMES 118-1-11 0A145A 01

DATE 10 MAR 80

(C2F085) (08 JUL 77)

PARAMETRIC DATA

| | | | |
|---------|---|-------|------|
| ELEVON | = | 2.000 | .000 |
| BDF LAP | = | .000 | .000 |
| RUDDER | = | 7.500 | .000 |
| | | 5.000 | |

REFERENCE DATA

| | | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|-----|----|
| XSREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. | XO |
| LRREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. | YO |
| BRREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. | ZO |
| SCALE | = | .0500 | | | | | | |

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|--------|------|---------------------|--------|------|
| 007/ 0 | 5.00 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|--------|------|---------------------|--------|------|

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|--------|---------|--------|---------|--------|---------|---------|---------|---------|---------|--------|
| .597 | -5.251 | 1.99050 | .01930 | -.00060 | .00970 | 7.50000 | -.10960 | .03000 | .00850 | -.00960 | .00850 |
| .597 | -.252 | 2.06820 | .01930 | -.00060 | .00970 | 7.50000 | -.10960 | .03000 | .00850 | -.00960 | .00850 |
| .598 | 2.309 | 2.01870 | .01930 | -.00060 | .00970 | 7.50000 | .10960 | .03000 | .00850 | -.00960 | .00850 |
| .597 | 4.929 | 2.05360 | .01930 | -.00060 | .00970 | 7.50000 | .10960 | .03000 | .00850 | -.00960 | .00850 |
| .598 | 8.026 | 1.99990 | .01930 | -.00060 | .00970 | 7.50000 | -.10960 | .03000 | .00850 | -.00960 | .00850 |
| .597 | 10.057 | 2.01160 | .01930 | .00160 | .00970 | 7.50000 | .10960 | .03000 | .01280 | -.00960 | .01280 |
| .597 | 12.075 | 2.02160 | .02140 | .00060 | .00970 | 7.50000 | .10960 | .03000 | .00850 | -.00960 | .00850 |
| .597 | 15.063 | 2.04700 | .01930 | -.00060 | .00970 | 7.50000 | -.10960 | .03000 | .00850 | -.00960 | .00850 |
| .596 | 17.047 | 2.07480 | .01930 | .00060 | .00970 | 7.50000 | .10960 | .03000 | .01850 | -.03950 | .00700 |
| .597 | 18.985 | 2.05530 | .03410 | -.01620 | .00970 | 7.50000 | .00000 | -.00000 | -.00000 | -.00000 | .00000 |

| Run No | ONE/0 | BN/1 | = | 4.99 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
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| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | AIL-1B | AIL-OB |
|------|--------|---------|--------|---------|--------|---------|---------|--------|---------|---------|
| .799 | -5.272 | 2.00270 | .01790 | -.00770 | .00000 | 7.50000 | -.21280 | .03000 | -.00960 | -.00580 |
| .797 | -.268 | 2.07210 | .01790 | -.00770 | .00000 | 7.50000 | -.21280 | .03000 | -.00960 | -.00580 |
| .798 | 2.290 | 2.03220 | .01790 | -.00770 | .00000 | 7.50000 | -.21280 | .03000 | -.00960 | -.00580 |
| .798 | 4.935 | 2.07340 | .01790 | -.00770 | .00000 | 7.50000 | -.21280 | .03000 | -.00960 | -.00580 |
| .799 | 8.082 | 2.08520 | .01790 | -.00480 | .00000 | 7.50000 | -.20390 | .03000 | -.00960 | -.00000 |
| .800 | 10.105 | 2.09200 | .01500 | -.01020 | .00000 | 7.50000 | -.20390 | .03500 | -.01460 | -.00580 |
| .798 | 12.085 | 2.09790 | .02040 | -.00770 | .00000 | 7.50000 | -.22180 | .03000 | -.00960 | -.00580 |
| .798 | 15.111 | 2.07530 | .01790 | -.01020 | .00000 | 7.50000 | -.23080 | .03500 | -.01460 | -.00580 |
| .801 | 17.085 | 2.09440 | .02040 | -.01020 | .00000 | 7.50000 | -.22180 | .03500 | -.01460 | -.01150 |
| .800 | 19.038 | 2.07930 | .02320 | -.01300 | .00000 | 6.80000 | .00000 | .00000 | .00000 | .00000 |

| | | | | | | | |
|--|------|---|---|------|---------------------|--------|------|
| | 903/ | 0 | = | 4.98 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|--|------|---|---|------|---------------------|--------|------|

[illegible]

OAI145 TABULATED FORCE DATA

DATE 10 MAR 80

(C2F085) (08 JUL 77)

AMES 118-1-11 OAI145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 7.500 RUDDER = .000
RN/L = 5.000

RUN NO. 900/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-08 |
|------|----------|---------|--------|---------|--------|---------|---------|--------|--------|
| .951 | -5.322 | 2.08400 | .0210 | -.00340 | .01940 | 7.50000 | -.13210 | .01430 | .00270 |
| .950 | -.263 | 2.08790 | .0210 | -.00340 | .02910 | 7.50000 | -.13210 | .01430 | .00270 |
| .951 | 2.301 | 2.12690 | .0210 | -.00340 | .01940 | 7.50000 | -.13210 | .01430 | .00270 |
| .953 | 4.932 | 2.13760 | .0210 | -.00340 | .02910 | 7.50000 | -.13210 | .01430 | .00270 |
| .953 | 8.061 | 2.10470 | .0210 | -.00340 | .01940 | 7.50000 | -.13210 | .01430 | .00270 |
| .951 | 10.129 | 2.10350 | .0210 | -.00340 | .02910 | 7.50000 | -.13210 | .01430 | .00270 |
| .952 | 12.137 | 2.10720 | .0210 | -.00340 | .02910 | 7.50000 | -.13210 | .01430 | .00270 |
| .951 | 15.160 | 2.13030 | .02430 | -.00130 | .02910 | 7.50000 | -.12310 | .01850 | .00700 |
| .949 | 17.095 | 2.15960 | .02640 | .00080 | .02910 | 7.50000 | -.12310 | .00960 | .01120 |
| .950 | 19.061 | 2.08090 | .02460 | -.00590 | .01940 | 7.50000 | -.12310 | .01460 | .00270 |
| | GRADIENT | .00954 | .00000 | .00000 | .00002 | -.00000 | .00000 | .00000 | .00000 |

AMES 118-1-11 OAI145A 01

(C2F086) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELEVON = .000 AILRON = .000
BDFLAP = .000 SPDBRK = 7.500
RN/L = 5.000

RUN NO. 908/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-08 | AIL-08 |
|------|----------|--------|--------|--------|---------|---------|--------|--------|
| .598 | -10.762 | .05250 | .01640 | .00650 | .00970 | 7.50000 | .01280 | .01280 |
| .598 | -4.939 | .04890 | .01640 | .00650 | .00970 | 7.50000 | .01280 | .01280 |
| .598 | -2.434 | .04740 | .01640 | .00650 | .00970 | 7.50000 | .01280 | .01280 |
| .598 | -1.103 | .04540 | .01640 | .00650 | .00970 | 7.50000 | .01280 | .01280 |
| .598 | 2.496 | .04160 | .01640 | .00650 | .00970 | 7.50000 | .01280 | .01280 |
| .598 | 5.014 | .03950 | .01640 | .00650 | .00970 | 7.50000 | .01280 | .01280 |
| .598 | 10.011 | .03600 | .01640 | .00650 | .00970 | 7.50000 | .01280 | .01280 |
| | GRADIENT | .00009 | .00000 | .00000 | -.00120 | .00000 | .00000 | .00000 |

(CF086) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 903/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-08 | AIL-08 | AIL-08 |
|------|----------|---------|---------|--------|---------|--------|---------|---------|---------|---------|
| .901 | -10.771 | 4.82860 | .05020 | .01540 | -.00520 | .00000 | 7.50000 | .00580 | -.00470 | -.00580 |
| .901 | -4.961 | 4.82910 | .04770 | .01540 | -.00520 | .00000 | 7.50000 | .00580 | -.00470 | -.00580 |
| .900 | -2.459 | 4.82850 | .04630 | .01540 | -.00520 | .00000 | 7.50000 | .00580 | -.00470 | -.00580 |
| .901 | -1.110 | 4.83140 | .04470 | .01790 | -.00770 | .00000 | 7.50000 | .00580 | -.00960 | -.00580 |
| .901 | 2.522 | 4.82900 | .04090 | .01540 | -.00520 | .00000 | 7.50000 | .00580 | -.00470 | -.00580 |
| .901 | 5.014 | 4.82980 | .03940 | .01540 | -.00520 | .00000 | 7.50000 | .00580 | -.00470 | -.00580 |
| .901 | 10.011 | 4.83200 | .03620 | .01540 | -.00520 | .00000 | 7.50000 | .00580 | -.00470 | -.00580 |
| | GRADIENT | .00010 | -.00089 | .00009 | -.00009 | .00000 | -.00000 | -.00000 | -.00018 | .00000 |

(CF087) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 705/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-08 | AIL-08 | AIL-08 |
|------|----------|---------|---------|---------|--------|--------|----------|---------|--------|---------|
| .599 | -5.021 | -.03710 | .02400 | .00830 | .00000 | .00000 | 15.00000 | .02280 | .00540 | .01120 |
| .600 | -.730 | -.01040 | .02400 | .00830 | .00000 | .00000 | 15.00000 | .02280 | .00540 | .01120 |
| .598 | -.026 | -.00500 | .02400 | .00830 | .00000 | .00000 | 15.00000 | .02280 | .00540 | .01120 |
| .598 | 2.464 | -.00350 | .01550 | -.00020 | .00000 | .00000 | 15.00000 | .00580 | .00540 | -.00580 |
| .598 | 4.875 | .03060 | .01550 | -.00020 | .00000 | .00000 | 15.00000 | .00580 | .00540 | -.00580 |
| .598 | 6.905 | .02870 | .01550 | -.00020 | .00000 | .00000 | 15.00000 | .00580 | .00540 | -.00580 |
| .598 | 7.928 | .02810 | .01550 | -.00020 | .00000 | .00000 | 15.00000 | .00580 | .00540 | -.00580 |
| .598 | 10.080 | .02690 | .01550 | -.00020 | .00000 | .00000 | 15.00000 | .00580 | .00540 | -.00580 |
| .598 | 12.074 | .02040 | .02180 | .00620 | .00000 | .00000 | 15.00000 | .01850 | .00540 | .00700 |
| .598 | 15.094 | .03240 | .02180 | .00620 | .00000 | .00000 | 15.00000 | .01850 | .00540 | .00700 |
| | GRADIENT | .00660 | -.00176 | -.00176 | .00000 | .00000 | -.00000 | -.00352 | .00000 | -.00352 |

PARAMETRIC DATA

BETA = .000
 AILRON = .000
 SPDBRK = 15.000
 RN/L = 5.000

RUN NO. 705/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-08 | AIL-08 | AIL-08 |
|------|----------|---------|---------|---------|--------|--------|----------|---------|--------|---------|
| .599 | -5.021 | -.03710 | .02400 | .00830 | .00000 | .00000 | 15.00000 | .02280 | .00540 | .01120 |
| .600 | -.730 | -.01040 | .02400 | .00830 | .00000 | .00000 | 15.00000 | .02280 | .00540 | .01120 |
| .598 | -.026 | -.00500 | .02400 | .00830 | .00000 | .00000 | 15.00000 | .02280 | .00540 | .01120 |
| .598 | 2.464 | -.00350 | .01550 | -.00020 | .00000 | .00000 | 15.00000 | .00580 | .00540 | -.00580 |
| .598 | 4.875 | .03060 | .01550 | -.00020 | .00000 | .00000 | 15.00000 | .00580 | .00540 | -.00580 |
| .598 | 6.905 | .02870 | .01550 | -.00020 | .00000 | .00000 | 15.00000 | .00580 | .00540 | -.00580 |
| .598 | 7.928 | .02810 | .01550 | -.00020 | .00000 | .00000 | 15.00000 | .00580 | .00540 | -.00580 |
| .598 | 10.080 | .02690 | .01550 | -.00020 | .00000 | .00000 | 15.00000 | .00580 | .00540 | -.00580 |
| .598 | 12.074 | .02040 | .02180 | .00620 | .00000 | .00000 | 15.00000 | .01850 | .00540 | .00700 |
| .598 | 15.094 | .03240 | .02180 | .00620 | .00000 | .00000 | 15.00000 | .01850 | .00540 | .00700 |
| | GRADIENT | .00660 | -.00176 | -.00176 | .00000 | .00000 | -.00000 | -.00352 | .00000 | -.00352 |

PARAMETRIC DATA

BETA = .000
 AILRON = .000
 SPDBRK = 15.000
 RN/L = 5.000

DATE 10 MAR 80

OAI145 TABULATED FORCE DATA

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AMES 118-1-11 OAI145A 01

(C2F087) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO.

599/ 0

RN/L =

4.93

GRADIENT INTERVAL =

-5.00/ 5.00

PARAMETRIC DATA

BETA = .000
 AILRON = .000
 SPOBRK = 15.000
 RUDDER = 5.000
 ELEVON = .000
 BOFLAP = .000
 RUDDER = .000

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|----------|--------|---------|--------|---------|--------|----------|---------|---------|--------|---------|
| .798 | -5.054 | -.03000 | .01050 | -.00020 | .00970 | 15.00000 | -.12310 | .00070 | .01030 | -.01080 |
| .801 | -.045 | -.00280 | .00790 | -.00280 | .00970 | 15.00000 | -.12310 | -.00440 | .01030 | -.01590 |
| .798 | 2.501 | .00250 | .00790 | -.00280 | .00970 | 15.00000 | -.12310 | -.00440 | .01030 | -.01590 |
| .799 | 5.043 | .03340 | .00790 | -.00280 | .01940 | 15.00000 | -.12310 | -.00440 | .01030 | -.01590 |
| .801 | 7.163 | .02980 | .01440 | .00940 | .00970 | 15.00000 | -.12310 | .00850 | .01030 | .00850 |
| .797 | 8.158 | .02870 | .01220 | .00730 | .00970 | 15.00000 | -.13210 | .00430 | .01030 | .00430 |
| .799 | 10.163 | .03060 | .01720 | .00650 | .01940 | 15.00000 | -.12310 | .01430 | .01030 | .00270 |
| .799 | 12.191 | .02560 | .01720 | .00650 | .00970 | 15.00000 | -.12310 | .01430 | .01030 | .00270 |
| .803 | 15.244 | .03220 | .01720 | .00650 | .00970 | 15.00000 | -.12310 | .01430 | .01030 | .00270 |
| GRADIENT | | .00208 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 |

RUN NO.

693/ 0

RN/L =

4.98

GRADIENT INTERVAL =

-5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|----------|--------|---------|---------|---------|--------|----------|---------|---------|--------|---------|
| .900 | -5.101 | -.05210 | .01440 | .00940 | .00970 | 15.00000 | -.07590 | .00850 | .01030 | .00850 |
| .902 | -.097 | -.01140 | .01440 | .00940 | .00970 | 15.00000 | -.06240 | .00850 | .01030 | .00850 |
| .900 | 2.455 | .00350 | .01220 | .00730 | .00970 | 15.00000 | -.04220 | .00430 | .01030 | .00430 |
| .901 | 4.988 | .03610 | .01440 | .00940 | .00970 | 15.00000 | -.04900 | .00850 | .01030 | .00850 |
| .902 | 7.071 | .02600 | .01220 | .00730 | .00970 | 15.00000 | -.02870 | .00430 | .01030 | .00430 |
| .901 | 8.097 | .02330 | .01220 | .00730 | .00970 | 15.00000 | -.02200 | .00430 | .01030 | .00430 |
| .900 | 10.128 | .01440 | .01220 | .00650 | .00970 | 15.00000 | -.01850 | .01430 | .01030 | .00270 |
| .902 | 12.172 | .01290 | .01220 | .00730 | .00970 | 15.00000 | .01850 | .00430 | .01030 | .00430 |
| .904 | 15.195 | .02650 | .01940 | .00870 | .00970 | 15.00000 | .05220 | .01850 | .01030 | .00700 |
| GRADIENT | | .00934 | -.00000 | -.00000 | .00000 | -.00000 | .00264 | -.00000 | .00000 | -.00000 |

RUN NO.

680/ 0

RN/L =

4.94

GRADIENT INTERVAL =

-5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|----------|--------|---------|--------|---------|--------|----------|---------|--------|---------|---------|
| .952 | -4.960 | -.03250 | .01760 | .00190 | .00970 | 15.00000 | -.12310 | .01000 | .00540 | .00150 |
| .951 | .083 | -.07250 | .02220 | .00160 | .00970 | 15.00000 | -.11640 | .01430 | .00040 | .00270 |
| .949 | 2.656 | .01100 | .01970 | .00410 | .01940 | 15.00000 | -.07590 | .01430 | .00540 | .00270 |
| .946 | 5.202 | .03230 | .01550 | -.00020 | .00970 | 15.00000 | -.04900 | .00580 | .00540 | -.00580 |
| .945 | 7.290 | .02120 | .01760 | .00190 | .01940 | 15.00000 | -.04220 | .01000 | .00540 | -.00150 |
| .947 | 8.261 | .02480 | .01970 | .00410 | .00970 | 15.00000 | -.04220 | .01430 | .00540 | .00270 |
| .950 | 10.352 | .02570 | .01970 | .00410 | .01940 | 15.00000 | -.06570 | .01430 | .00540 | .00270 |
| .943 | 12.388 | .02270 | .02640 | .00580 | .04850 | 15.00000 | -.05920 | .02280 | .00040 | .01120 |
| .939 | 15.425 | .02860 | .01720 | .00150 | .00970 | 15.00000 | -.10290 | .01430 | .00030 | .00270 |
| GRADIENT | | .00574 | .00036 | .00024 | .00110 | -.00000 | .00552 | .00060 | -.00014 | .00059 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

PAGE 1111
(CF087) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 15.000 RUDDER = .000
RN/L = 5.000

RUN NO. 679/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|---------|---------|---------|---------|----------|---------|---------|---------|---------|---------|
| 1.199 | -4.855 | -.0310 | .01980 | .00910 | .00000 | 15.00000 | -.12310 | .02530 | .01430 | .01540 | .00270 |
| 1.196 | .082 | -.00520 | .01770 | .00700 | .00000 | 15.00000 | -.12310 | .02530 | .01000 | .01540 | -.00150 |
| 1.202 | 2.679 | .00950 | .01300 | .00230 | .00000 | 15.00000 | -.12310 | .02020 | .00580 | .01030 | -.00580 |
| 1.197 | 5.253 | .03360 | .01770 | .00700 | .00000 | 15.00000 | -.12310 | .02530 | .01000 | .01540 | -.00150 |
| 1.196 | 7.191 | .02730 | .01550 | .00480 | .00000 | 15.00000 | -.12310 | .02530 | .00580 | .01540 | -.00580 |
| 1.198 | 8.218 | .02950 | .01300 | .00230 | .00000 | 15.00000 | -.12310 | .02020 | .00580 | .01030 | -.00580 |
| 1.198 | 10.353 | .02180 | .01270 | .00770 | .00000 | 15.00000 | -.12310 | .02530 | .00000 | .01540 | -.00000 |
| 1.195 | 12.408 | .02100 | .01050 | -.00020 | .00000 | 15.00000 | -.12310 | .02530 | -.00440 | .01540 | -.01590 |
| 1.186 | 15.444 | .03680 | .01300 | .00230 | -.01000 | 15.00000 | -.12310 | .02020 | .00580 | .01030 | -.00580 |
| | GRADIENT | .00565 | -.00084 | -.00084 | .00000 | .00000 | -.00000 | -.00059 | -.00109 | -.00059 | -.00109 |

--- RUN NO. 556/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|---------|---------|---------|--------|----------|---------|--------|---------|--------|---------|
| 1.402 | -4.088 | -.03160 | .02220 | .00160 | .01940 | 15.00000 | -.12310 | .03010 | .01430 | .00040 | .00270 |
| 1.406 | .074 | -.00940 | .02010 | -.00050 | .05820 | 15.00000 | -.12310 | .03010 | .01000 | .00040 | -.00150 |
| 1.401 | 2.457 | .00550 | .01790 | -.00270 | .01940 | 15.00000 | -.12310 | .03010 | .00580 | .00040 | -.00580 |
| 1.399 | 5.049 | .03140 | .02010 | -.00050 | .01940 | 15.00000 | -.12310 | .03010 | .01000 | .00040 | -.00150 |
| 1.399 | 7.093 | .02870 | .01760 | .00260 | .01940 | 15.00000 | -.12310 | .03520 | .00000 | .00550 | -.00000 |
| 1.403 | 8.128 | .02540 | .02260 | .00200 | .05820 | 15.00000 | -.11640 | .03520 | .01000 | .00550 | -.00150 |
| 1.399 | 10.176 | .02420 | .02050 | -.00010 | .01940 | 15.00000 | -.11640 | .03520 | .00580 | .00550 | -.00580 |
| 1.402 | 12.197 | .01950 | .02050 | -.00010 | .01940 | 15.00000 | -.11640 | .03520 | .00580 | .00550 | -.00580 |
| 1.400 | 15.229 | .03110 | .02470 | .00410 | .00970 | 15.00000 | -.11640 | .03520 | .01430 | .00550 | .00270 |
| | GRADIENT | .00566 | -.00064 | -.00064 | .00088 | .00000 | .00000 | .00000 | -.00128 | .00000 | -.00128 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

(C2F088) (08 JUL 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
AILRON = .000 BOFLAP = .000
SPDBRK = 15.000 RUDDER = .000
RN/L = 5.000

RUN NO. 703/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-IB | AIL-IB | ELV-OB | AIL-OB |
|------|--------|---------|--------|---------|---------|----------|---------|--------|--------|--------|---------|
| .597 | -6.068 | 5.12990 | .02010 | -.00050 | .00970 | 15.00000 | -.12310 | .03010 | .00040 | .01000 | -.00150 |
| .597 | -1.938 | 5.09140 | .02010 | -.00050 | .00970 | 15.00000 | -.13210 | .03010 | .00040 | .01000 | -.00150 |
| .597 | -.899 | 5.06260 | .02010 | -.00050 | .00970 | 15.00000 | -.13210 | .03010 | .00040 | .01000 | -.00150 |
| .597 | .027 | 4.97000 | .02010 | -.00050 | .00970 | 15.00000 | -.14110 | .03010 | .00040 | .01000 | -.00150 |
| .597 | .488 | 5.14570 | .02010 | -.00050 | .00970 | 15.00000 | -.10290 | .03010 | .00040 | .01000 | -.00150 |
| .597 | 1.021 | 5.16300 | .02010 | -.00050 | .00970 | 15.00000 | -.10960 | .03010 | .00040 | .01000 | -.00150 |
| .597 | 2.088 | 5.16340 | .02010 | -.00050 | .00970 | 15.00000 | -.11640 | .03010 | .00040 | .01000 | -.00150 |
| .597 | 3.130 | 5.14270 | .02010 | -.00050 | .00970 | 15.00000 | -.12310 | .03010 | .00040 | .01000 | -.00150 |
| .597 | 4.160 | 5.13850 | .02010 | -.00050 | .00970 | 15.00000 | -.12310 | .02520 | .00540 | .01000 | -.00150 |
| .597 | 6.220 | 5.12940 | .01760 | .00190 | .00000 | 15.00000 | -.00312 | .00000 | .00000 | .00000 | -.00000 |
| .597 | .01652 | .00000 | .00000 | .00000 | -.00212 | -.00000 | | | | | |

RUN NO. 698/ 0 RN/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-IB | AIL-IB | ELV-OB | AIL-OB |
|------|----------|---------|--------|--------|--------|----------|---------|--------|--------|--------|---------|
| .798 | -6.115 | 5.10110 | .01510 | .00440 | .01940 | 15.00000 | -.01520 | .02020 | .01030 | .01000 | -.00150 |
| .799 | -1.977 | 5.06460 | .01510 | .00440 | .01940 | 15.00000 | -.06240 | .02020 | .01030 | .01000 | -.00150 |
| .799 | -.939 | 5.04280 | .01510 | .00440 | .01940 | 15.00000 | -.06920 | .02020 | .01030 | .01000 | -.00150 |
| .800 | .116 | 4.83330 | .01510 | .00440 | .01940 | 15.00000 | -.07590 | .02020 | .01030 | .01000 | -.00150 |
| .798 | .614 | 5.10300 | .01510 | .00440 | .01940 | 15.00000 | -.08270 | .02020 | .01030 | .01000 | -.00150 |
| .799 | 1.142 | 5.07080 | .01510 | .00440 | .01940 | 15.00000 | -.08940 | .02020 | .01030 | .01000 | -.00150 |
| .798 | 2.182 | 5.04630 | .01510 | .00440 | .01940 | 15.00000 | -.09620 | .02020 | .01030 | .01000 | -.00150 |
| .797 | 3.225 | 5.03090 | .01510 | .00440 | .01940 | 15.00000 | -.09620 | .02020 | .01030 | .01000 | -.00150 |
| .799 | 4.265 | 5.01540 | .01510 | .00440 | .01940 | 15.00000 | -.10290 | .02020 | .01030 | .01000 | -.00150 |
| .795 | 6.333 | 4.98940 | .01510 | .00440 | .01940 | 15.00000 | -.12310 | .02020 | .01030 | .01000 | -.00150 |
| | GRADIENT | -.00001 | .00000 | .00000 | .00000 | -.00000 | -.00670 | .00000 | .00000 | .00000 | -.00000 |

RUN NO. 692/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-IB | AIL-IB | ELV-OB | AIL-OB |
|------|----------|---------|---------|---------|--------|----------|---------|--------|--------|---------|---------|
| .901 | -6.132 | 5.03750 | .01800 | .00150 | .01940 | 15.00000 | .05220 | .02020 | .01030 | .01580 | -.00730 |
| .902 | -1.975 | 5.06660 | .01590 | -.00060 | .00970 | 15.00000 | -.04900 | .02020 | .01030 | .01150 | -.01150 |
| .899 | -.920 | 5.05020 | .01590 | -.00060 | .00970 | 15.00000 | -.06920 | .02020 | .01030 | .01150 | -.01150 |
| .898 | .007 | 5.67790 | .01510 | .00440 | .00970 | 15.00000 | -.06920 | .02020 | .01030 | .01000 | -.00150 |
| .899 | .642 | 5.08660 | .01300 | .00230 | .00970 | 15.00000 | -.06240 | .02020 | .01030 | .00580 | -.00580 |
| .898 | 1.176 | 5.11690 | .01300 | .00230 | .00970 | 15.00000 | -.07590 | .02020 | .01030 | .00580 | -.00580 |
| .899 | 2.216 | 5.09010 | .01300 | .00230 | .00970 | 15.00000 | -.06920 | .02020 | .01030 | .00580 | -.00580 |
| .899 | 3.266 | 5.07610 | .01300 | .00230 | .00970 | 15.00000 | -.07590 | .02020 | .01030 | .00580 | -.00580 |
| .898 | 4.309 | 5.05780 | .01300 | .00230 | .00970 | 15.00000 | -.08940 | .02020 | .01030 | .00580 | -.00580 |
| .898 | 6.379 | 5.03160 | .01300 | .00230 | .00970 | 15.00000 | -.10290 | .02020 | .01030 | .00580 | -.00580 |
| | GRADIENT | -.01973 | -.00055 | .00040 | .00000 | -.00000 | -.00372 | .00000 | .00000 | -.00107 | -.00078 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1113

AMES 118-1-11 OAI45A 01

(C2F088) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 15.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 681/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-1B | ELV-OB | AIL-1B | AIL-OB |
|------|----------|---------|--------|---------|---------|----------|---------|--------|--------|---------|--------|
| .952 | -6.112 | 5.28330 | .02430 | .00370 | .01940 | 15.00000 | .05220 | .03010 | .01850 | .00040 | .00700 |
| .951 | -1.964 | 5.26300 | .02400 | .00830 | .01940 | 15.00000 | -.04900 | .02520 | .02280 | .00540 | .01120 |
| .950 | -.919 | 5.24130 | .02640 | .00580 | .01940 | 15.00000 | -.08270 | .03010 | .02280 | .00040 | .01120 |
| .952 | .025 | 5.21590 | .02640 | .00580 | .00970 | 15.00000 | -.08940 | .03010 | .02280 | .00040 | .01120 |
| .950 | .538 | 5.34180 | .02640 | .00580 | .00970 | 15.00000 | -.08940 | .03010 | .02280 | .00040 | .01120 |
| .952 | 1.067 | 5.33000 | .02400 | .00830 | .00970 | 15.00000 | -.09620 | .02520 | .02280 | .00540 | .01120 |
| .950 | 2.140 | 5.30880 | .02640 | .00580 | .00970 | 15.00000 | -.10960 | .03010 | .02280 | .00040 | .01120 |
| .949 | 3.190 | 5.27760 | .02640 | .00580 | .00970 | 15.00000 | -.11640 | .03010 | .02280 | .00040 | .01120 |
| .950 | 4.226 | 5.27290 | .02640 | .00580 | .00970 | 15.00000 | -.12310 | .03010 | .02280 | .00040 | .01120 |
| .948 | 6.307 | 5.25520 | .02640 | .00580 | .00970 | 15.00000 | -.14110 | .03010 | .02280 | .00040 | .01120 |
| | GRADIENT | .00552 | .00024 | -.00025 | -.00160 | .00000 | -.01070 | .00048 | .00000 | -.00049 | .00000 |

RUN NO. 678/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-1B | ELV-OB | AIL-1B | AIL-OB |
|-------|----------|---------|--------|--------|--------|----------|---------|--------|--------|--------|---------|
| 1.200 | -6.191 | 5.33530 | .01770 | .00700 | .00000 | 15.00000 | -.12310 | .02530 | .01000 | .01540 | -.00150 |
| 1.201 | -2.054 | 5.32380 | .01480 | .00980 | .00000 | 15.00000 | -.12310 | .02530 | .00430 | .01540 | .00430 |
| 1.198 | -1.018 | 5.29620 | .01980 | .00910 | .00000 | 15.00000 | -.12310 | .02530 | .01430 | .01540 | .00270 |
| 1.199 | .110 | 5.41280 | .01270 | .00770 | .00000 | 15.00000 | -.12310 | .02530 | .00000 | .01540 | .00000 |
| 1.199 | .689 | 5.24570 | .01270 | .00770 | .00000 | 15.00000 | -.12310 | .02530 | .00000 | .01540 | .00000 |
| 1.199 | 1.167 | 5.24360 | .01270 | .00770 | .00000 | 15.00000 | -.12310 | .02530 | .00000 | .01540 | .00000 |
| 1.200 | 2.197 | 5.21580 | .01690 | .01200 | .00000 | 15.00000 | -.12310 | .02530 | .00850 | .01540 | .00850 |
| 1.199 | 3.241 | 5.20030 | .02540 | .02050 | .00000 | 15.00000 | -.12310 | .02530 | .02550 | .01540 | .02550 |
| 1.199 | 4.285 | 5.18650 | .02970 | .02470 | .00000 | 15.00000 | -.12310 | .02530 | .03400 | .01540 | .03400 |
| 1.197 | 6.357 | 5.16690 | .01480 | .00980 | .00000 | 15.00000 | -.13210 | .02530 | .00430 | .01540 | .00430 |
| | GRADIENT | -.02646 | .00207 | .00246 | .00000 | .00000 | -.00000 | .00000 | .00414 | .00000 | .00491 |

RUN NO. 667/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-1B | ELV-OB | AIL-1B | AIL-OB |
|-------|----------|---------|--------|--------|--------|----------|---------|--------|--------|--------|---------|
| 1.401 | -6.115 | 5.03350 | .02260 | .00200 | .00970 | 15.00000 | -.09620 | .03520 | .01000 | .00550 | -.00150 |
| 1.405 | -1.971 | 4.99660 | .02260 | .00200 | .00970 | 15.00000 | -.11640 | .03520 | .01000 | .00550 | -.00150 |
| 1.404 | -.913 | 4.98260 | .02260 | .00200 | .00970 | 15.00000 | -.11640 | .03520 | .01000 | .00550 | -.00150 |
| 1.403 | .148 | 5.03260 | .02260 | .00200 | .00970 | 15.00000 | -.10960 | .03520 | .01000 | .00550 | -.00150 |
| 1.403 | .624 | 5.00260 | .02260 | .00200 | .00970 | 15.00000 | -.10290 | .03520 | .01000 | .00550 | -.00150 |
| 1.403 | 1.158 | 4.99220 | .02260 | .00200 | .00970 | 15.00000 | -.10290 | .03520 | .01000 | .00550 | -.00150 |
| 1.402 | 2.218 | 4.97100 | .02260 | .00200 | .00970 | 15.00000 | -.10290 | .03520 | .01000 | .00550 | -.00150 |
| 1.402 | 3.272 | 4.95330 | .02260 | .00200 | .00970 | 15.00000 | -.10960 | .03520 | .01000 | .00550 | -.00150 |
| 1.402 | 4.321 | 4.94250 | .02260 | .00200 | .00970 | 15.00000 | -.11640 | .03520 | .01000 | .00550 | -.00150 |
| 1.399 | 6.405 | 4.92630 | .02190 | .00700 | .00970 | 15.00000 | -.12310 | .03520 | .00850 | .00550 | -.00150 |
| | GRADIENT | -.00986 | .00000 | .00000 | .00000 | .00000 | .00056 | .00000 | .00000 | .00000 | -.00000 |

0A145 TABULATED FORCE DATA
AMES 118-1-11 0A145A 01

DATE 10 MAR 80

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 BETA = .000
ELEVON = .000 AILRON = .000
BDFLAP = .000 SPDBRK = 15.000
RN/L = 5.000

RUN NO. 700/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-08 | AIL-08 | ELV-18 | AIL-18 | AIL-08 |
|------|----------|---------|---------|--------|--------|--------|----------|--------|--------|---------|--------|---------|
| .597 | -14.970 | -.04180 | -.00880 | .01510 | .00440 | .00970 | 15.00000 | .01000 | .01030 | .02020 | .01030 | -.00150 |
| .598 | -10.691 | -.04220 | -.00460 | .01510 | .00440 | .01940 | 15.00000 | .01000 | .01030 | .02020 | .01030 | -.00150 |
| .597 | -4.961 | -.04110 | -.00150 | .01510 | .00440 | .00970 | 15.00000 | .01000 | .01030 | .02020 | .01030 | -.00150 |
| .597 | -2.418 | -.04180 | -.00030 | .01650 | .01150 | .00970 | 15.00000 | .01280 | .01030 | .02020 | .01030 | .01280 |
| .597 | -.123 | -.04290 | -.00070 | .01940 | .00870 | .00970 | 15.00000 | .01850 | .01030 | .02020 | .01030 | .00700 |
| .597 | 2.505 | -.04310 | -.00290 | .01940 | .00870 | .00970 | 15.00000 | .01850 | .01030 | .02020 | .01030 | .00700 |
| .598 | 5.024 | -.04490 | -.00450 | .01940 | .00870 | .00970 | 15.00000 | .01850 | .01030 | .02020 | .01030 | .00700 |
| .597 | 10.027 | -.04650 | -.00900 | .01940 | .00870 | .00970 | 15.00000 | .01850 | .01030 | .02020 | .01030 | .00700 |
| .597 | 15.031 | -.04720 | -.01440 | .01940 | .00870 | .00970 | 15.00000 | .01850 | .01030 | .02020 | .01030 | .00700 |
| .596 | 18.143 | -.04720 | -.01720 | .01940 | .00870 | .00970 | 15.00000 | .01850 | .01030 | .02020 | .01030 | .00700 |
| .597 | 22.836 | -.04770 | -.02010 | .01940 | .00870 | .00970 | 15.00000 | .01850 | .01030 | .02020 | .01030 | .00700 |
| | GRADIENT | -.00029 | -.00058 | .00063 | .00042 | .00000 | .00000 | .00125 | .00000 | -.00000 | .00000 | .00081 |

RUN NO. 694/ 0 RN/L = 4.92 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-08 | AIL-08 | ELV-18 | AIL-18 | AIL-08 |
|------|----------|---------|---------|--------|--------|---------|----------|--------|--------|--------|--------|---------|
| .800 | -14.965 | -.11540 | -.00330 | .01260 | .00190 | .01940 | 15.00000 | .01000 | .00520 | .01510 | .00520 | -.00150 |
| .798 | -10.780 | -.11440 | -.00750 | .01510 | .00440 | .01940 | 15.00000 | .01000 | .01030 | .02020 | .01030 | -.00150 |
| .799 | -4.947 | -.11500 | -.01160 | .01510 | .00440 | .00970 | 15.00000 | .01000 | .01030 | .02020 | .01030 | -.00150 |
| .799 | -2.418 | -.11490 | -.01290 | .01260 | .00190 | .00970 | 15.00000 | .01000 | .00520 | .01510 | .00520 | -.00150 |
| .798 | -.103 | -.11520 | -.01370 | .01510 | .00440 | .00970 | 15.00000 | .01000 | .01030 | .02020 | .01030 | -.00150 |
| .799 | 2.496 | -.11700 | -.01370 | .01510 | .00440 | .00970 | 15.00000 | .01000 | .01030 | .02020 | .01030 | -.00150 |
| .800 | 5.024 | -.11900 | -.01790 | .01510 | .00440 | .00970 | 15.00000 | .01000 | .01030 | .02020 | .01030 | -.00150 |
| .799 | 10.003 | -.12210 | -.02350 | .01510 | .00440 | .00970 | 15.00000 | .01000 | .01030 | .02020 | .01030 | -.00150 |
| .798 | 15.199 | -.12260 | -.02790 | .01510 | .00440 | .00970 | 15.00000 | .01000 | .01030 | .02020 | .01030 | -.00150 |
| .799 | 18.161 | -.12290 | -.03060 | .01510 | .00440 | .00970 | 15.00000 | .01000 | .01030 | .02020 | .01030 | -.00150 |
| .799 | 22.827 | -.12330 | -.03390 | .01510 | .00440 | .00970 | 15.00000 | .01000 | .01030 | .02020 | .01030 | -.00150 |
| | GRADIENT | -.00026 | -.00053 | .00010 | .00010 | -.00119 | .00000 | .00000 | .00020 | .00020 | .00020 | .00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1115

AMES 118-1-11 OAI45A 01

(C2F089) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

ALPHA =
ELEVON =
BDFLAP =
RN/L =

BETA =
AILRON =
SPDBRK =
5.000

RUN NO. 688/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-18 | AIL-18 | AIL-08 | AIL-0B |
|------|----------|----------|----------|----------|--------|--------|----------|--------|--------|--------|----------|
| .900 | -14.955 | -0.07850 | .00360 | .00900 | .01480 | .04850 | 15.00000 | .02020 | .01030 | .00220 | .01920 |
| .899 | -10.736 | -0.07950 | -0.00090 | .01720 | .00650 | .01940 | 15.00000 | .02020 | .01030 | .01430 | .00270 |
| .901 | -4.961 | -0.07970 | -0.00450 | .01720 | .00650 | .00970 | 15.00000 | .02020 | .01030 | .01430 | .00270 |
| .900 | -2.442 | -0.08040 | -0.00560 | .01720 | .00650 | .00970 | 15.00000 | .02020 | .01030 | .01430 | .00270 |
| .899 | -1.116 | -0.08170 | -0.00730 | .01720 | .00650 | .00970 | 15.00000 | .02020 | .01030 | .01430 | .00270 |
| .902 | 2.513 | -0.08120 | -0.00850 | .01720 | .00650 | .00970 | 15.00000 | .02020 | .01030 | .01430 | .00270 |
| .900 | 5.005 | -0.08440 | -0.01100 | .01720 | .00650 | .00970 | 15.00000 | .02020 | .01030 | .01430 | .00270 |
| .899 | 10.019 | -0.08570 | -0.01570 | .01720 | .00650 | .00970 | 15.00000 | .02020 | .01030 | .01430 | .00270 |
| .901 | 14.996 | -0.08440 | -0.02010 | .01720 | .00650 | .00970 | 15.00000 | .02020 | .01030 | .01430 | .00270 |
| .900 | 18.107 | -0.08570 | -0.02290 | .01720 | .00650 | .00970 | 15.00000 | .02020 | .01030 | .01430 | .00270 |
| .899 | 22.836 | -0.08670 | -0.02640 | .01720 | .00650 | .00970 | 15.00000 | .02020 | .01030 | .01430 | .00270 |
| | GRADIENT | -0.00023 | -0.00055 | -0.00000 | .00000 | .00000 | -0.00000 | .00000 | .00000 | .00000 | -0.00000 |

RUN NO. 685/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-18 | AIL-18 | AIL-08 | AIL-0B |
|------|----------|----------|----------|----------|--------|--------|----------|----------|--------|--------|---------|
| .950 | -14.965 | -0.05910 | .00210 | .01590 | .00060 | .00000 | 15.00000 | .02020 | .01030 | .01150 | -0.0150 |
| .951 | -10.762 | -0.06330 | -0.00060 | .01300 | .00230 | .00000 | 15.00000 | .02020 | .01030 | .00580 | -0.0580 |
| .952 | -4.947 | -0.06650 | -0.00400 | .01300 | .00230 | .00000 | 15.00000 | .02020 | .01030 | .00580 | -0.0580 |
| .951 | -2.451 | -0.06710 | -0.00480 | .01300 | .00230 | .00000 | 15.00000 | .02020 | .01030 | .00580 | -0.0580 |
| .951 | -1.116 | -0.06740 | -0.00490 | .01300 | .00230 | .00000 | 15.00000 | .02020 | .01030 | .00580 | -0.0580 |
| .951 | 2.488 | -0.06870 | -0.00600 | .01300 | .00230 | .00000 | 15.00000 | .02020 | .01030 | .00580 | -0.0580 |
| .950 | 5.024 | -0.06880 | -0.00780 | .01300 | .00230 | .00000 | 15.00000 | .02020 | .01030 | .00580 | -0.0580 |
| .950 | 10.027 | -0.06850 | -0.01210 | .01300 | .00230 | .00000 | 15.00000 | .02020 | .01030 | .00580 | -0.0580 |
| .951 | 15.005 | -0.06550 | -0.01620 | .01300 | .00230 | .00000 | 15.00000 | .02020 | .01030 | .00580 | -0.0580 |
| .949 | 18.107 | -0.06290 | -0.01810 | .01300 | .00230 | .00000 | 15.00000 | .02020 | .01030 | .00580 | -0.0580 |
| .950 | 22.836 | -0.05020 | -0.02140 | .01300 | .00230 | .00000 | 15.00000 | .02020 | .01030 | .00580 | -0.0580 |
| | GRADIENT | -0.03028 | -0.00025 | -0.00000 | .00000 | .00000 | .00000 | -0.00000 | .00000 | .00000 | .00000 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

AMES 118-1-11 0A145A 01

(C2F089) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = 15.000
 RN/L = 5.000

RUN NO. 673/ 0 RN/L = 5.08 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-08 | AIL-08 |
|-------|----------|---------|---------|---------|--------|---------|----------|---------|--------|
| 1.200 | -14.965 | .10040 | -.00160 | .01550 | .00480 | .00970 | 15.00000 | .00580 | .00580 |
| 1.199 | -10.771 | .09310 | -.00450 | .01550 | .00480 | .00970 | 15.00000 | .00580 | .00580 |
| 1.201 | -4.947 | .08980 | -.00670 | .01550 | .00480 | .00970 | 15.00000 | .00580 | .00580 |
| 1.201 | -2.426 | .08870 | -.00700 | .01550 | .00480 | .00970 | 15.00000 | .00580 | .00580 |
| 1.200 | -.141 | .08740 | -.00690 | .01550 | .00480 | .00970 | 15.00000 | .00580 | .00580 |
| 1.200 | 2.531 | .08710 | -.00710 | .01270 | .00770 | .00000 | 15.00000 | .00000 | .00000 |
| 1.200 | 5.005 | .08620 | -.00800 | .01550 | .00480 | .00970 | 15.00000 | .00580 | .00580 |
| 1.199 | 9.987 | .08680 | -.01170 | .01550 | .00480 | .00000 | 15.00000 | .00580 | .00580 |
| 1.200 | 15.014 | .09190 | -.01500 | .01550 | .00480 | .00970 | 15.00000 | .00580 | .00580 |
| 1.199 | 18.116 | .09340 | -.01700 | .01270 | .00770 | .00970 | 15.00000 | .00000 | .00000 |
| 1.197 | 22.846 | .09650 | -.02000 | .01550 | .00480 | .00000 | 15.00000 | .00580 | .00580 |
| | GRADIENT | -.00038 | -.00005 | -.00035 | .00036 | -.00002 | .00000 | -.00072 | .00072 |

RUN NO. 670/ 0 RN/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-08 | AIL-08 |
|-------|----------|--------|---------|--------|---------|---------|----------|--------|--------|
| 1.404 | -14.970 | .13570 | -.01050 | .01550 | -.00020 | .00970 | 15.00000 | .00580 | .00580 |
| 1.404 | -10.736 | .13150 | -.01320 | .01970 | .00410 | .01940 | 15.00000 | .01430 | .00270 |
| 1.404 | -4.954 | .12730 | -.01380 | .01680 | .00690 | .00970 | 15.00000 | .00850 | .00850 |
| 1.403 | -2.434 | .12690 | -.01290 | .01970 | .00410 | .01940 | 15.00000 | .01430 | .00270 |
| 1.403 | -.141 | .12770 | -.01280 | .02110 | .01120 | .01940 | 15.00000 | .01700 | .01700 |
| 1.403 | 2.522 | .12720 | -.01260 | .02610 | .01040 | .00970 | 15.00000 | .02700 | .01550 |
| 1.403 | 5.014 | .12620 | -.01320 | .02610 | .01300 | .00970 | 15.00000 | .02700 | .01550 |
| 1.404 | 10.003 | .12940 | -.01530 | .02860 | .01300 | .00970 | 15.00000 | .02130 | .01050 |
| 1.403 | 15.031 | .13240 | -.01760 | .02070 | .01580 | .00970 | 15.00000 | .02130 | .01050 |
| 1.402 | 18.116 | .13640 | -.01920 | .02110 | .01120 | .01940 | 15.00000 | .01700 | .01700 |
| 1.402 | 22.818 | .13950 | -.02270 | .02110 | .01120 | .00970 | 15.00000 | .01700 | .01700 |
| | GRADIENT | .00002 | .00015 | .00119 | .00070 | -.00002 | .00000 | .00237 | .00140 |

DATE 10 MAR 80

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA =
ELEVON =
BDFLAP =
RN/L =
5.000 BETA = .000
.000 AILRON = .000
.000 SPDBRK = 15.000
5.000

RUN NO. 702/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-08 | AIL-18 | AIL-08 |
|------|----------|---------|---------|--------|--------|---------|----------|--------|--------|---------|
| .598 | -14.960 | 4.91420 | .03620 | .01510 | .00440 | .00970 | 15.00000 | .01000 | .01030 | -.00150 |
| .598 | -10.754 | 4.91380 | .03320 | .01510 | .00440 | .00970 | 15.00000 | .01000 | .01030 | -.00150 |
| .597 | -4.939 | 4.91460 | .02970 | .01510 | .00440 | .00970 | 15.00000 | .01000 | .01030 | -.00150 |
| .597 | -2.426 | 4.91530 | .02830 | .01510 | .00440 | .00970 | 15.00000 | .01000 | .01030 | -.00150 |
| .597 | -.096 | 4.91610 | .02630 | .01510 | .00440 | .00970 | 15.00000 | .01000 | .01030 | -.00150 |
| .597 | 2.496 | 4.91660 | .02260 | .01510 | .00440 | .00000 | 15.00000 | .01000 | .01030 | -.00150 |
| .597 | 5.005 | 4.91720 | .02020 | .01510 | .00440 | .00000 | 15.00000 | .01000 | .01030 | -.00150 |
| .597 | 10.019 | 4.91810 | .01640 | .01510 | .00440 | .00000 | 15.00000 | .01000 | .01030 | -.00150 |
| .597 | 15.031 | 4.91980 | .01270 | .01510 | .00440 | .00000 | 15.00000 | .01000 | .01030 | -.00150 |
| .596 | 18.143 | 4.92000 | .01060 | .01510 | .00440 | .00000 | 15.00000 | .01000 | .01030 | -.00150 |
| .597 | 22.836 | 4.92060 | .00810 | .01510 | .00440 | .00000 | 15.00000 | .01000 | .01030 | -.00150 |
| | GRADIENT | .00028 | -.00095 | .00000 | .00000 | -.00119 | .00000 | .00000 | .00000 | .00000 |

RUN NO. 696/ 0 RN/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-08 | AIL-18 | AIL-08 |
|------|----------|---------|---------|--------|---------|---------|----------|--------|--------|---------|
| .799 | -14.960 | 4.96460 | .03700 | .01720 | .00650 | .01940 | 15.00000 | .01430 | .01030 | .00270 |
| .799 | -10.736 | 4.96570 | .03400 | .01720 | .00650 | .01940 | 15.00000 | .01430 | .01030 | .00270 |
| .800 | -2.442 | 4.96840 | .02890 | .01440 | .00940 | .01940 | 15.00000 | .00850 | .01030 | .00850 |
| .799 | -1.316 | 4.96580 | .03080 | .01720 | .00940 | .00970 | 15.00000 | .01430 | .01030 | .00270 |
| .799 | -.123 | 4.96950 | .02650 | .01440 | .00940 | .01940 | 15.00000 | .00850 | .01030 | .00850 |
| .800 | 2.496 | 4.97100 | .02280 | .01720 | .00650 | .00970 | 15.00000 | .01430 | .01030 | .00270 |
| .799 | 5.014 | 4.97080 | .01990 | .01440 | .00940 | .01940 | 15.00000 | .00850 | .01030 | .00850 |
| .799 | 10.011 | 4.97170 | .01610 | .01720 | .00650 | .01940 | 15.00000 | .01430 | .01030 | .00270 |
| .799 | 15.005 | 4.97220 | .01290 | .01720 | .00650 | .01940 | 15.00000 | .01430 | .01030 | .00270 |
| .799 | 18.125 | 4.97310 | .01100 | .01720 | .00650 | .01940 | 15.00000 | .01430 | .01030 | .00270 |
| .800 | 22.818 | 4.97360 | .00820 | .01720 | .00650 | .00970 | 15.00000 | .00881 | .01030 | .00270 |
| | GRADIENT | .00075 | -.00146 | .00039 | -.00040 | -.00135 | -.00000 | .00081 | .00000 | -.00081 |

OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

DATE 10 MAR 80

(C2F09C) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELEVON = .000 AILRON = .000
BOFLAP = .000 SPOBRK = 15.000
RN/L = 5.000

RUN NO. 690/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | ELV-1B | AIL-1B | AIL-OB |
|------|----------|---------|---------|---------|--------|---------|----------|---------|--------|---------|
| .900 | -14.965 | 4.96820 | .04640 | .01300 | .00230 | .00970 | 15.00000 | .02020 | .01030 | -.00580 |
| .900 | -10.754 | 4.96840 | .04400 | .01300 | .00230 | .01940 | 15.00000 | .02020 | .01030 | -.00580 |
| .902 | -4.924 | 4.96830 | .04170 | .01300 | .00230 | .00970 | 15.00000 | .02020 | .01030 | -.00580 |
| .900 | -2.451 | 4.96610 | .04010 | .01300 | .00230 | .01940 | 15.00000 | .02020 | .01030 | -.00580 |
| .900 | -.103 | 4.96900 | .03750 | .01300 | .00230 | .00970 | 15.00000 | .02020 | .01030 | -.00580 |
| .900 | 2.496 | 4.96890 | .03370 | .01010 | .00520 | .00000 | 15.00000 | .02020 | .01030 | .00000 |
| .899 | 5.014 | 4.96610 | .03140 | .01300 | .00230 | .00970 | 15.00000 | .02020 | .01030 | -.00580 |
| .899 | 10.011 | 4.96650 | .02810 | .01510 | .00440 | .00970 | 15.00000 | .02020 | .01030 | -.00150 |
| .899 | 15.014 | 4.96730 | .02470 | .01510 | .00440 | .00970 | 15.00000 | .02020 | .01030 | .00270 |
| .900 | 18.134 | 4.96690 | .02260 | .01720 | .00650 | .00970 | 15.00000 | .02020 | .01030 | .00270 |
| .900 | 22.846 | 4.96820 | .01970 | .01720 | .00650 | .00970 | 15.00000 | .02020 | .01030 | .00072 |
| | GRADIENT | .00019 | -.00108 | -.00036 | .00036 | -.00158 | .00000 | -.00000 | .00000 | |

RUN NO. 684/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | ELV-1B | AIL-1B | AIL-OB |
|------|----------|---------|---------|--------|---------|--------|----------|--------|--------|---------|
| .951 | -14.970 | 5.04860 | .03710 | .01260 | .00190 | .01940 | 15.00000 | .01510 | .00520 | -.00150 |
| .951 | -10.745 | 5.04690 | .03500 | .01260 | .00190 | .02910 | 15.00000 | .01510 | .00520 | -.00150 |
| .951 | -4.932 | 5.04430 | .03310 | .01040 | -.00030 | .01940 | 15.00000 | .01510 | .00520 | -.00580 |
| .950 | -2.451 | 5.04510 | .03230 | .01040 | -.00030 | .01940 | 15.00000 | .01510 | .00520 | -.00580 |
| .951 | -.056 | 5.04480 | .03040 | .01040 | -.00030 | .01940 | 15.00000 | .02020 | .01030 | -.00580 |
| .951 | 2.496 | 5.04580 | .02690 | .01300 | .00230 | .01940 | 15.00000 | .02020 | .01030 | -.00580 |
| .952 | 5.005 | 5.04710 | .02420 | .01300 | .00230 | .01940 | 15.00000 | .02020 | .01030 | -.00580 |
| .951 | 10.011 | 5.04920 | .02150 | .01300 | .00230 | .00000 | 15.00000 | .02020 | .01030 | -.00150 |
| .949 | 15.005 | 5.05100 | .01890 | .01510 | .00440 | .00000 | 15.00000 | .02020 | .01030 | -.00150 |
| .950 | 18.125 | 5.05310 | .01750 | .01510 | .00440 | .00000 | 15.00000 | .02020 | .01030 | -.00150 |
| .950 | 22.836 | 5.05640 | .01490 | .01510 | .00440 | .00000 | 15.00000 | .02020 | .01030 | -.00150 |
| | GRADIENT | .00017 | -.00083 | .00032 | .00032 | .00000 | .00000 | .00062 | .00062 | |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(C2F090) (08 JUL 77)

AMES 118-1-11 OAI45A 01

PARAMETRIC DATA

ALPHA =
ELEVON =
BOFLAP =
RN/L =

BETA =
AILRON =
SPDBRK =

5.000
.000
.000
5.000

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

RUN NO. 676/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | ELV-OB | ELV-IB | AIL-OB | AIL-IB |
|-------|----------|---------|---------|---------|--------|--------|----------|---------|---------|--------|--------|
| 1.198 | -14.970 | 5.23290 | .04600 | .01980 | .00910 | .00970 | 15.00000 | .01430 | .02530 | .01540 | .01540 |
| 1.198 | -10.771 | 5.23000 | .04530 | .01980 | .00910 | .00970 | 15.00000 | .01430 | .02530 | .01540 | .01540 |
| 1.200 | -4.947 | 5.22810 | .04410 | .01980 | .00910 | .00970 | 15.00000 | .01430 | .02530 | .01540 | .01540 |
| 1.201 | -2.442 | 5.22880 | .04310 | .01980 | .00910 | .00970 | 15.00000 | .01430 | .02530 | .01540 | .01540 |
| 1.199 | -1.132 | 5.22660 | .04090 | .01690 | .01200 | .00970 | 15.00000 | .00850 | .02530 | .01540 | .01540 |
| 1.200 | 2.505 | 5.22740 | .03900 | .01690 | .01200 | .00000 | 15.00000 | .00850 | .02530 | .01540 | .01540 |
| 1.200 | 4.996 | 5.22900 | .03740 | .01690 | .01200 | .00000 | 15.00000 | .00850 | .02530 | .01540 | .01540 |
| 1.199 | 10.019 | 5.23180 | .03560 | .01690 | .01200 | .00000 | 15.00000 | .00850 | .02530 | .01540 | .01540 |
| 1.200 | 15.022 | 5.23550 | .03390 | .01690 | .01200 | .00970 | 15.00000 | .00850 | .02530 | .01540 | .01540 |
| 1.199 | 18.125 | 5.23800 | .03250 | .01690 | .01200 | .00970 | 15.00000 | .00850 | .02530 | .01540 | .01540 |
| 1.200 | 22.846 | 5.24300 | .03070 | .01690 | .01200 | .00000 | 15.00000 | .00850 | .02530 | .01540 | .01540 |
| | GRADIENT | .00002 | -.00070 | -.00035 | .00035 | .00079 | .00000 | -.00069 | -.00000 | .00000 | .00000 |

RUN NO. 669/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | ELV-OB | ELV-IB | AIL-OB | AIL-IB |
|-------|----------|---------|---------|---------|---------|--------|----------|---------|---------|--------|--------|
| 1.403 | -14.976 | 5.02380 | .16210 | .02120 | -.00590 | .00970 | 15.00000 | .01730 | .02520 | .00540 | .00540 |
| 1.402 | -10.727 | 5.02080 | .15600 | .02120 | -.00590 | .00970 | 15.00000 | .01730 | .02520 | .00540 | .00540 |
| 1.401 | -4.924 | 5.01940 | .14570 | .02120 | -.00590 | .00970 | 15.00000 | .00580 | .02520 | .00540 | .00540 |
| 1.403 | -2.451 | 5.01870 | .14400 | .01550 | -.00020 | .00970 | 15.00000 | .00580 | .02520 | .00540 | .00540 |
| 1.403 | -.141 | 5.01900 | .13790 | .01550 | -.00020 | .00970 | 15.00000 | .00580 | .02520 | .00540 | .00540 |
| 1.403 | 2.488 | 5.01970 | .13340 | .01550 | -.00020 | .00970 | 15.00000 | .00580 | .02520 | .00540 | .00540 |
| 1.403 | 5.014 | 5.02090 | .13220 | .01550 | -.00020 | .00970 | 15.00000 | .00580 | .02520 | .00540 | .00540 |
| 1.403 | 10.011 | 5.02540 | .12510 | .01260 | .00270 | .00970 | 15.00000 | .00000 | .02520 | .00540 | .00540 |
| 1.404 | 15.005 | 5.02840 | .11650 | .01260 | .00270 | .00970 | 15.00000 | .00000 | .02520 | .00540 | .00540 |
| 1.403 | 18.143 | 5.03410 | .11500 | .01260 | .00270 | .00970 | 15.00000 | .00580 | .02520 | .00540 | .00540 |
| 1.403 | 22.836 | 5.03970 | .11120 | .01550 | -.00020 | .00970 | 15.00000 | .00580 | .02520 | .00540 | .00540 |
| | GRADIENT | .00005 | -.00175 | -.00069 | .00069 | .00036 | .00000 | -.00140 | -.00000 | .00000 | .00000 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

AMES 118-1-11 OAI45A 01

(CZF091) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000
 ELEVON = .000
 BOFLAP = .000
 RN/L = 5.000

RUN NO. 701/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|--------|---------|--------|----------|--------|---------|---------|
| .598 | -14.993 | 9.98100 | .04830 | .01510 | .00440 | .00970 | 15.00000 | .01000 | .01030 | -.00150 |
| .598 | -10.745 | 9.98190 | .04470 | .01510 | .00440 | .01940 | 15.00000 | .01000 | .01030 | -.00150 |
| .597 | -4.939 | 9.98350 | .04070 | .01220 | .00730 | .00970 | 15.00000 | .00430 | .01030 | -.00430 |
| .597 | -2.418 | 9.98200 | .03910 | .01510 | .00440 | .00970 | 15.00000 | .01000 | .01030 | -.00150 |
| .598 | -.141 | 9.98710 | .03640 | .01510 | .00440 | .01940 | 15.00000 | .01000 | .01030 | -.00150 |
| .598 | 2.522 | 9.98670 | .03370 | .01510 | .00440 | .00970 | 15.00000 | .01000 | .01030 | -.00150 |
| .597 | 5.024 | 9.98650 | .03060 | .01510 | .00440 | .00970 | 15.00000 | .01000 | .01030 | -.00150 |
| .597 | 10.011 | 9.98860 | .02560 | .01510 | .00440 | .00970 | 15.00000 | .01000 | .01030 | -.00150 |
| .597 | 15.014 | 9.99030 | .02170 | .01510 | .00440 | .00970 | 15.00000 | .01000 | .01030 | -.00150 |
| .598 | 18.125 | 9.99470 | .01940 | .01510 | .00440 | .00970 | 15.00000 | .01000 | .01030 | -.00150 |
| .597 | 22.836 | 9.99370 | .01730 | .01510 | .00440 | .00970 | 15.00000 | .01000 | .01030 | -.00150 |
| | GRADIENT | .00058 | -.00096 | .00035 | -.00035 | .00035 | -.00000 | .00069 | -.00000 | -.00070 |

RUN NO. 695/ 0 RN/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | ELV-OB | AIL-IB | AIL-OB |
|------|----------|----------|---------|--------|---------|--------|----------|--------|--------|---------|
| .798 | -14.960 | 10.13900 | .03840 | .01720 | .00650 | .00970 | 15.00000 | .01430 | .01030 | .00270 |
| .799 | -10.754 | 10.13800 | .03540 | .01440 | .00940 | .01940 | 15.00000 | .00850 | .01030 | .00850 |
| .799 | -4.961 | 10.14000 | .03150 | .01440 | .00940 | .00970 | 15.00000 | .00850 | .01030 | .00850 |
| .799 | -2.434 | 10.14100 | .02950 | .01440 | .00940 | .00970 | 15.00000 | .00850 | .01030 | .00850 |
| .799 | -.123 | 10.14500 | .02750 | .01440 | .00940 | .00970 | 15.00000 | .01430 | .01030 | .00270 |
| .800 | 2.513 | 10.14700 | .02400 | .01720 | .00650 | .00970 | 15.00000 | .01430 | .01030 | .00270 |
| .798 | 5.014 | 10.14700 | .02020 | .01720 | .00650 | .00970 | 15.00000 | .01430 | .01030 | .00270 |
| .800 | 10.067 | 10.15000 | .01600 | .01720 | .00650 | .01940 | 15.00000 | .01430 | .01030 | .00270 |
| .800 | 14.996 | 10.15000 | .01260 | .01720 | .00650 | .01940 | 15.00000 | .01430 | .01030 | .00270 |
| .799 | 18.116 | 10.15100 | .01060 | .01940 | .00650 | .00970 | 15.00000 | .01850 | .01030 | .00700 |
| .801 | 22.827 | 10.15500 | .00770 | .01940 | .00870 | .00970 | 15.00000 | .00071 | .00000 | -.00071 |
| | GRADIENT | .00101 | -.00099 | .00034 | -.00036 | .00000 | .00000 | .00071 | .00000 | -.00071 |

AMES 118-1-11 0A145A 01

PARAMETRIC DATA

| | | | |
|--------|-------|---|--------|
| 10.000 | BETA | = | .000 |
| .000 | AIRON | = | .000 |
| .000 | SPBRK | = | 15.000 |
| 5.000 | | | |

ALPHA
ELEVON
BDF L A P
RN/L

BN/1 = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

RUN NO.

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | ELV-1B | AIL-0B | AIL-1B |
|------|-----------|----------|--------|--------|--------|--------|----------|--------|--------|--------|
| .901 | -14.965 | 10.09200 | .04500 | .01940 | .00870 | .00970 | 15.00000 | .02020 | .01850 | .01030 |
| .900 | -10.09000 | 10.09000 | .04260 | .01940 | .00870 | .00970 | 15.00000 | .02020 | .01850 | .01030 |
| .899 | -4.961 | 10.08700 | .03890 | .01940 | .00870 | .00000 | 15.00000 | .02020 | .01850 | .01030 |
| .901 | -2.434 | 10.09200 | .03680 | .01940 | .00870 | .00970 | 15.00000 | .02020 | .01850 | .01030 |
| .899 | -.089 | 10.09200 | .03440 | .01940 | .00870 | .00970 | 15.00000 | .02020 | .01850 | .01030 |
| .899 | 2.522 | 10.08900 | .03130 | .01940 | .00870 | .00000 | 15.00000 | .02020 | .01850 | .01030 |
| .899 | 4.996 | 10.09400 | .02820 | .01940 | .00870 | .00970 | 15.00000 | .02020 | .01850 | .01030 |
| .900 | 10.003 | 10.09800 | .02410 | .01940 | .00870 | .00000 | 15.00000 | .02020 | .01850 | .01030 |
| .900 | 15.005 | 10.10100 | .02100 | .01940 | .00870 | .00970 | 15.00000 | .02020 | .01850 | .01030 |
| .900 | 18.134 | 10.10300 | .01920 | .01940 | .00870 | .00970 | 15.00000 | .02020 | .01850 | .01030 |
| .900 | 22.808 | 10.10300 | .01630 | .01940 | .00870 | .00970 | 15.00000 | .02020 | .01850 | .01030 |
| .900 | | | .06100 | .00000 | .00000 | .00030 | - .00000 | .00000 | .00000 | .00000 |

| | | | | | | |
|------|---|------|-------------------|---|--------|------|
| RN/I | = | 4.95 | GRADIENT INTERVAL | = | -5.00/ | 5.00 |
|------|---|------|-------------------|---|--------|------|

RUN NO.

[illegible]

0A145 TABULATED FORCE DATA
AMES 118-1-11 0A145A 01

DATE 10 MAR 80

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000 BETA = .000
ELEVON = .000 AILRON = .000
BDFLAP = .000 SPDBRK = 15.000
RN/L = 5.000

RUN NO. 674/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|----------|---------|---------|--------|--------|----------|---------|---------|---------|---------|
| 1.199 | -14.960 | 10.36000 | .03050 | .01770 | .00700 | .00970 | 15.00000 | .02530 | .01000 | .01540 | -.00150 |
| 1.199 | -10.727 | 10.35800 | .02670 | .01480 | .00980 | .00970 | 15.00000 | .02530 | .00430 | .01540 | .00430 |
| 1.200 | -4.947 | 10.35600 | .02720 | .01770 | .00700 | .00000 | 15.00000 | .02530 | .01000 | .01540 | -.00150 |
| 1.200 | -2.459 | 10.35500 | .02570 | .01480 | .00980 | .00000 | 15.00000 | .02530 | .00430 | .01540 | .00430 |
| 1.201 | -1.110 | 10.35600 | .02440 | .01770 | .00700 | .00970 | 15.00000 | .02530 | .01000 | .01540 | -.00150 |
| 1.199 | 2.488 | 10.35800 | .02200 | .01480 | .00980 | .00000 | 15.00000 | .02530 | .00430 | .01540 | .00430 |
| 1.199 | 5.024 | 10.36000 | .01990 | .01480 | .00980 | .00000 | 15.00000 | .02530 | .00430 | .01540 | .00430 |
| 1.199 | 10.011 | 10.36500 | .01750 | .01480 | .00980 | .00000 | 15.00000 | .02530 | .00430 | .01540 | .00430 |
| 1.199 | 15.005 | 10.37000 | .01560 | .01480 | .00980 | .00000 | 15.00000 | .02530 | .00430 | .01540 | .00430 |
| 1.199 | 18.116 | 10.37300 | .01440 | .01480 | .00980 | .00000 | 15.00000 | .02530 | .00430 | .01540 | .00430 |
| 1.199 | 22.818 | 10.37800 | .01240 | .01770 | .00700 | .00000 | 15.00000 | .02530 | .01000 | .01540 | -.00150 |
| 1.199 | GRADIENT | .00029 | -.00069 | -.00024 | .00023 | .00037 | .00000 | -.00000 | -.00048 | -.00000 | -.00049 |

RUN NO. 671/ 0 RN/L = 4.91 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|----------|---------|--------|---------|---------|----------|--------|--------|--------|---------|
| 1.395 | -14.965 | 11.30300 | .03240 | .01010 | .00520 | .00970 | 15.00000 | .02020 | .00000 | .01030 | .00000 |
| 1.396 | -10.736 | 11.29800 | .03130 | .01300 | .00230 | .00970 | 15.00000 | .02020 | .00580 | .01030 | -.00580 |
| 1.398 | -4.932 | 11.29300 | .02720 | .01010 | .00520 | .00970 | 15.00000 | .02020 | .00000 | .01030 | .00000 |
| 1.399 | -2.434 | 11.29400 | .02670 | .01300 | .00230 | .00970 | 15.00000 | .02020 | .00580 | .01030 | -.00580 |
| 1.400 | -1.123 | 11.29000 | .02540 | .01300 | .00230 | .00970 | 15.00000 | .02020 | .00580 | .01030 | -.00580 |
| 1.401 | 2.496 | 11.29400 | .02380 | .01300 | .00230 | .00970 | 15.00000 | .02020 | .00580 | .01030 | -.00580 |
| 1.401 | 5.005 | 11.29400 | .02260 | .01300 | .00230 | .00970 | 15.00000 | .02020 | .00580 | .01030 | -.00580 |
| 1.401 | 10.035 | 11.29800 | .01910 | .01300 | .00230 | .00970 | 15.00000 | .02020 | .00580 | .01030 | -.00580 |
| 1.402 | 14.996 | 11.30100 | .01880 | .01010 | .00520 | .00970 | 15.00000 | .02020 | .00000 | .01030 | .00000 |
| 1.402 | 18.125 | 11.30400 | .01680 | .01010 | .00520 | .00970 | 15.00000 | .02020 | .00000 | .01030 | .00000 |
| 1.403 | 22.808 | 11.30700 | .01540 | .01010 | .00520 | .00970 | 15.00000 | .02020 | .00000 | .01030 | .00000 |
| 1.403 | GRADIENT | -.00003 | -.00047 | .00035 | -.00035 | -.00120 | .00000 | .00000 | .00071 | .00000 | -.00071 |

OAI145 TABULATED FORCE DATA

DATE 10 MAR 80

(C2F092) (08 JUL 77)

AMES 118-1-11 OAI145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 15.000 BETA = .000
ELEVON = .000 AILRON = .000
BDFLAP = .000 SPOBRK = 15.000
RN/L = 5.000

RUN NO. 675/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | ELV-OB | AIL-OB | AIL-IB | AIL-OB |
|-------|----------|----------|---------|---------|--------|---------|----------|---------|--------|--------|--------|
| 1.199 | -14.976 | 15.43500 | .03990 | .01270 | .00770 | .00970 | 15.00000 | .00000 | .01540 | .01540 | .00000 |
| 1.198 | -10.736 | 15.43000 | .03860 | .01270 | .00770 | .00970 | 15.00000 | .00000 | .01540 | .01540 | .00000 |
| 1.200 | -4.954 | 15.42800 | .03470 | .01550 | .00480 | .00000 | 15.00000 | .00580 | .01540 | .01540 | .00580 |
| 1.200 | -2.451 | 15.42600 | .03320 | .01270 | .00770 | .00000 | 15.00000 | .00000 | .01540 | .01540 | .00000 |
| 1.201 | -1.132 | 15.42800 | .03140 | .01270 | .00770 | .00970 | 15.00000 | .00000 | .01540 | .01540 | .00000 |
| 1.200 | 2.505 | 15.43200 | .02980 | .01270 | .00770 | .00000 | 15.00000 | .00000 | .01540 | .01540 | .00000 |
| 1.200 | 4.996 | 15.43500 | .02790 | .01270 | .00770 | .00000 | 15.00000 | .00000 | .01540 | .01540 | .00000 |
| 1.200 | 10.019 | 15.43700 | .02340 | .01270 | .00770 | .00000 | 15.00000 | .00000 | .01540 | .01540 | .00000 |
| 1.199 | 15.022 | 15.44500 | .02020 | .01270 | .00770 | .00970 | 15.00000 | .00000 | .01540 | .01540 | .00000 |
| 1.200 | 18.116 | 15.44800 | .01700 | .01270 | .00770 | .00000 | 15.00000 | .00000 | .01540 | .01540 | .00000 |
| 1.200 | 22.818 | 15.45200 | .01510 | .01270 | .00770 | .00000 | 5.00000 | .00000 | .01540 | .01540 | .00000 |
| 1.200 | GRADIENT | .00081 | -.00068 | -.00022 | .00023 | -.00002 | .00000 | -.00046 | .00000 | .00000 | .00046 |

RUN NO. 672/ 0 RN/L = 4.90 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | ELV-OB | AIL-OB | AIL-IB | AIL-OB |
|-------|----------|----------|---------|--------|---------|---------|----------|---------|--------|--------|--------|
| 1.392 | -14.993 | 15.42900 | .04220 | .00790 | -.00280 | .00970 | 15.00000 | -.00440 | .01030 | .01030 | .01590 |
| 1.394 | -10.745 | 15.43900 | .03730 | .01720 | .00650 | .00970 | 15.00000 | .01430 | .01030 | .01030 | .00270 |
| 1.393 | -4.954 | 15.43800 | .03550 | .01440 | .00940 | .00000 | 15.00000 | .00850 | .01030 | .01030 | .00850 |
| 1.393 | -2.426 | 15.43900 | .03250 | .01440 | .00940 | .00970 | 15.00000 | .00850 | .01030 | .01030 | .00850 |
| 1.393 | 2.513 | 15.43900 | .03190 | .01440 | .00940 | .00000 | 15.00000 | .00850 | .01030 | .01030 | .00850 |
| 1.394 | 5.014 | 15.43800 | .03300 | .01440 | .00940 | .00970 | 15.00000 | .00850 | .01030 | .01030 | .00850 |
| 1.393 | 10.003 | 15.44100 | .02780 | .01440 | .00940 | .00000 | 15.00000 | .00850 | .01030 | .01030 | .00850 |
| 1.393 | 14.996 | 15.44900 | .02210 | .01440 | .00940 | .00000 | 15.00000 | .00850 | .01030 | .01030 | .00850 |
| 1.393 | 18.107 | 15.45100 | .02130 | .01440 | .00940 | .00000 | 15.00000 | .00850 | .01030 | .01030 | .00850 |
| 1.393 | 22.836 | 15.45400 | .02160 | .01440 | .00940 | .00370 | 15.00000 | .00850 | .01030 | .01030 | .00850 |
| 1.393 | GRADIENT | -.00000 | -.00033 | .00000 | .00000 | -.00000 | .00000 | .00000 | .00000 | .00000 | .00000 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

(C2F093) (08 JUL 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

ALPHA = .000
AILRON = .000
SPOBRK = .000
RUDDER = .000
ELEVON = .000
BOFLAP = .000
RUDDER = .000
AIL-OB = .000
AIL-1B = .000
ELV-OB = .000
ELV-1B = .000

PARAMETRIC DATA

RUN NO. 704/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-OB | ELV-1B | AIL-OB | AIL-1B |
|------|----------|----------|--------|--------|--------|----------|----------|--------|--------|--------|--------|
| .597 | -6.045 | 5.12020 | .01760 | .00190 | .00000 | 15.00000 | -4.93150 | .01000 | .02520 | .00540 | .00540 |
| .597 | -1.935 | 5.09080 | .02010 | .00050 | .00000 | 15.00000 | -4.97650 | .01000 | .03010 | .00040 | .00040 |
| .597 | -1.899 | 5.06330 | .02010 | .00050 | .00000 | 15.00000 | -4.97650 | .01000 | .03010 | .00040 | .00040 |
| .598 | .029 | 4.98210 | .02010 | .00050 | .00000 | 15.00000 | -4.93900 | .01000 | .02520 | .00540 | .00540 |
| .597 | .551 | 5.03640 | .01760 | .00190 | .00000 | 15.00000 | -4.93900 | .01000 | .02520 | .00540 | .00540 |
| .597 | 1.038 | 5.08140 | .01760 | .00190 | .00000 | 15.00000 | -4.93900 | .01000 | .03010 | .00540 | .00540 |
| .597 | 2.105 | 5.07690 | .02010 | .00050 | .00000 | 15.00000 | -4.93900 | .01000 | .02520 | .00540 | .00540 |
| .598 | 3.141 | 5.05570 | .01760 | .00190 | .00000 | 15.00000 | -4.93900 | .01000 | .02520 | .00540 | .00540 |
| .598 | 4.169 | 5.05420 | .01760 | .00190 | .00000 | 15.00000 | -4.93900 | .01000 | .02520 | .00540 | .00540 |
| .599 | 6.225 | 5.04270 | .01760 | .00190 | .00000 | 15.00000 | -4.93900 | .01000 | .02520 | .00540 | .00540 |
| | GRADIENT | - .00060 | .00000 | .00039 | .00000 | .00000 | .00627 | .00000 | .00081 | .00082 | .00000 |

RUN NO. 697/ 0 RN/L = 4.92 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-OB | ELV-1B | AIL-OB | AIL-1B |
|------|----------|---------|--------|--------|--------|----------|----------|--------|--------|--------|--------|
| .799 | -6.086 | 5.00380 | .01510 | .00440 | .00970 | 15.00000 | -4.93150 | .01000 | .02020 | .01030 | .01030 |
| .797 | -1.945 | 5.05760 | .01510 | .00440 | .00970 | 15.00000 | -4.93900 | .01000 | .02020 | .01030 | .01030 |
| .799 | -1.908 | 5.03400 | .01510 | .00440 | .00970 | 15.00000 | -4.94650 | .01000 | .02020 | .01030 | .01030 |
| .800 | .165 | 4.81990 | .01510 | .00440 | .00970 | 15.00000 | -4.94650 | .01000 | .02020 | .01030 | .01030 |
| .798 | .657 | 5.07620 | .01510 | .00440 | .00970 | 15.00000 | -4.94650 | .01000 | .02020 | .01030 | .01030 |
| .798 | 1.178 | 5.08460 | .01510 | .00440 | .00970 | 15.00000 | -4.94650 | .01000 | .02020 | .01030 | .01030 |
| .797 | 2.219 | 5.05750 | .01510 | .00440 | .00970 | 15.00000 | -4.94650 | .01000 | .02020 | .01030 | .01030 |
| .797 | 3.261 | 5.04190 | .01510 | .00440 | .00970 | 15.00000 | -4.95400 | .01000 | .02020 | .01030 | .01030 |
| .797 | 4.299 | 5.02780 | .01510 | .00440 | .00970 | 15.00000 | -4.96150 | .01000 | .02020 | .01030 | .01030 |
| .796 | 6.367 | 5.00330 | .01510 | .00440 | .00970 | 15.00000 | -4.96150 | .01000 | .02020 | .01030 | .01030 |
| | GRADIENT | .00453 | .00000 | .00000 | .00000 | .00000 | .00284 | .00000 | .00000 | .00000 | .00000 |

RUN NO. 681/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-OB | ELV-1B | AIL-OB | AIL-1B |
|------|----------|---------|--------|--------|--------|----------|----------|--------|--------|--------|--------|
| .900 | -6.130 | 5.10410 | .01720 | .00650 | .00970 | 15.00000 | -4.94650 | .01430 | .02020 | .01030 | .01030 |
| .900 | -1.964 | 5.06980 | .01510 | .00440 | .00970 | 15.00000 | -4.95400 | .01000 | .02020 | .01030 | .01030 |
| .899 | .916 | 5.04930 | .01510 | .00440 | .00970 | 15.00000 | -4.95400 | .01000 | .02020 | .01030 | .01030 |
| .899 | .133 | 4.90920 | .01510 | .00440 | .00970 | 15.00000 | -4.96150 | .01000 | .02020 | .01030 | .01030 |
| .900 | .645 | 5.06720 | .01510 | .00440 | .00970 | 15.00000 | -4.96150 | .01000 | .02020 | .01030 | .01030 |
| .900 | 1.174 | 5.09850 | .01510 | .00440 | .00970 | 15.00000 | -4.95400 | .01000 | .02020 | .01030 | .01030 |
| .900 | 2.211 | 5.07410 | .01510 | .00440 | .00970 | 15.00000 | -4.95400 | .01000 | .02020 | .01030 | .01030 |
| .898 | 3.257 | 5.05860 | .01510 | .00440 | .00970 | 15.00000 | -4.96150 | .01000 | .02020 | .01030 | .01030 |
| .898 | 4.295 | 5.04050 | .01510 | .00440 | .00970 | 15.00000 | -4.96150 | .01000 | .02020 | .01030 | .01030 |
| .896 | 6.366 | 5.01490 | .01510 | .00440 | .00970 | 15.00000 | -4.96900 | .01000 | .02020 | .01030 | .01030 |
| | GRADIENT | .00286 | .00000 | .00000 | .00000 | .00000 | .00036 | .00000 | .00000 | .00000 | .00000 |

DATE 10 MAR 80

OAI145 TABULATED FORCE DATA

PAGE 1125

AMES 118-1-11 OAI145A 01

(C2F093) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPOBRK = 15.000 RUDDER = -5.000
 RN/L = 5.000

RUN NO. 683/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|---------|---------|--------|----------|----------|--------|---------|--------|---------|
| .951 | -6.103 | 5.11120 | .02400 | .00830 | .01940 | 15.00000 | -4.93900 | .02520 | .02280 | .00540 | .01120 |
| .952 | -1.946 | 5.07400 | .02110 | .01040 | .01940 | 15.00000 | -4.94650 | .01510 | .02700 | .00520 | .01550 |
| .951 | -.915 | 5.05260 | .01260 | .00190 | .01940 | 15.00000 | -4.94650 | .01510 | .01000 | .00520 | -.00150 |
| .951 | .036 | 5.00000 | .01260 | .00190 | .01940 | 15.00000 | -4.94650 | .01510 | .01000 | .00520 | -.00150 |
| .951 | .589 | 5.14170 | .01260 | .00190 | .01940 | 15.00000 | -4.94650 | .01510 | .01000 | .00520 | -.00150 |
| .950 | 1.077 | 5.19650 | .01510 | .00440 | .01940 | 15.00000 | -4.94650 | .02020 | .01000 | .01030 | -.00150 |
| .949 | 2.149 | 5.17890 | .01510 | .00440 | .01940 | 15.00000 | -4.95400 | .02020 | .01000 | .01030 | -.00150 |
| .951 | 3.190 | 5.15860 | .01260 | .00190 | .01940 | 15.00000 | -4.95400 | .01510 | .01000 | .00520 | -.00150 |
| .948 | 4.231 | 5.15150 | .01510 | .00440 | .01940 | 15.00000 | -4.95400 | .02020 | .01000 | .01030 | -.00150 |
| .947 | 6.312 | 5.13790 | .01510 | .00440 | .01940 | 15.00000 | -4.95400 | .02020 | .01000 | .01030 | -.00150 |
| | GRADIENT | .02107 | -.00049 | -.00049 | .00000 | .00000 | -.00160 | .00073 | -.00170 | .00073 | -.00170 |

RUN NO. 677/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|---------|--------|--------|--------|----------|----------|--------|--------|--------|--------|
| 1.199 | -6.106 | 5.31720 | .02400 | .01330 | .00000 | 15.00000 | -4.94650 | .02530 | .02280 | .01540 | .01120 |
| 1.200 | -1.954 | 5.27800 | .02540 | .02050 | .00000 | 15.00000 | -4.95400 | .02530 | .02550 | .01540 | .02550 |
| 1.198 | -.924 | 5.25340 | .01270 | .00770 | .00000 | 15.00000 | -4.95400 | .02530 | .00000 | .01540 | .00000 |
| 1.199 | .053 | 5.04960 | .01480 | .00980 | .00000 | 15.00000 | -4.95400 | .02530 | .00430 | .01540 | .00430 |
| 1.199 | .675 | 5.25540 | .01480 | .00980 | .00000 | 15.00000 | -4.95400 | .02530 | .00430 | .01540 | .00430 |
| 1.199 | 1.179 | 5.22420 | .01690 | .01200 | .00000 | 15.00000 | -4.95400 | .02530 | .00850 | .01540 | .00850 |
| 1.200 | 2.215 | 5.19870 | .01690 | .01200 | .00000 | 15.00000 | -4.95400 | .02530 | .00850 | .01540 | .00850 |
| 1.198 | 3.258 | 5.18350 | .02120 | .01620 | .00000 | 15.00000 | -4.95400 | .02530 | .01700 | .01540 | .01700 |
| 1.199 | 4.296 | 5.17420 | .02540 | .02050 | .00000 | 15.00000 | -4.96150 | .02530 | .02550 | .01540 | .02550 |
| 1.199 | 6.364 | 5.15400 | .01690 | .01200 | .00000 | 15.00000 | -4.96150 | .02530 | .00850 | .01540 | .00850 |
| 1.197 | GRADIENT | -.01071 | .00072 | .00072 | .00000 | .00000 | -.00078 | .00000 | .00143 | .00000 | .00143 |

RUN NO. 668/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|---------|---------|---------|--------|----------|----------|---------|--------|---------|--------|
| 1.403 | -6.117 | 5.03410 | .01510 | .00020 | .00970 | 15.00000 | -4.95400 | .03010 | .00000 | .00040 | .00000 |
| 1.405 | -1.968 | 5.00090 | .02750 | -.01220 | .00970 | 15.00000 | -4.95400 | .05490 | .00000 | -.02430 | .00000 |
| 1.402 | -.908 | 4.98820 | .02500 | -.00970 | .00970 | 15.00000 | -4.94650 | .05000 | .00000 | -.01940 | .00000 |
| 1.403 | .152 | 5.03770 | .02250 | -.00720 | .00970 | 15.00000 | -4.94650 | .04500 | .00000 | -.01440 | .00000 |
| 1.403 | .633 | 4.99350 | .01510 | .00020 | .00970 | 15.00000 | -4.94650 | .03010 | .00000 | .00040 | .00000 |
| 1.403 | 1.169 | 4.99250 | .01510 | .00020 | .00970 | 15.00000 | -4.93900 | .03010 | .00000 | .00040 | .00000 |
| 1.402 | 2.225 | 4.97450 | .01720 | .00230 | .00970 | 15.00000 | -4.93900 | .03010 | .00430 | .00040 | .00430 |
| 1.402 | 3.275 | 4.95800 | .01930 | .00450 | .00970 | 15.00000 | -4.93900 | .03010 | .00850 | .00040 | .00850 |
| 1.402 | 4.324 | 4.94560 | .01930 | .00450 | .00970 | 15.00000 | -4.93150 | .03010 | .00850 | .00040 | .00850 |
| 1.403 | 6.409 | 4.93000 | .01900 | .00910 | .00970 | 15.00000 | -4.92400 | .02520 | .01280 | .00540 | .01280 |
| 1.400 | GRADIENT | -.00990 | -.00131 | .00293 | .00000 | .00000 | .00311 | -.00423 | .00163 | .00421 | .00163 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

(C2F084) (08 JUL 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPOBRK = 40.000 RUDDER = .000
RN/L = 5.000

RUN NO. 731/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|---------|--------|----------|---------|---------|--------|---------|
| .597 | -4.987 | -.03420 | .00750 | -.00180 | .00970 | 40.00000 | -.10960 | .01000 | .00510 | -.00150 |
| .599 | -.015 | -.00420 | .00340 | -.00030 | .00970 | 40.00000 | -.10960 | .00580 | .00510 | -.00580 |
| .598 | 2.550 | .00160 | .00540 | -.00030 | .00970 | 40.00000 | -.10960 | .00580 | .00510 | -.00580 |
| .596 | 5.007 | .03350 | .01180 | .00600 | .00970 | 40.00000 | -.11640 | .01850 | .00510 | .00700 |
| .596 | 7.065 | .03060 | .01180 | .00600 | .00970 | 40.00000 | -.11640 | .01850 | .00510 | .00700 |
| .596 | 8.123 | .03600 | .01180 | .00600 | .00970 | 40.00000 | -.12310 | .01430 | .00510 | .00270 |
| .597 | 10.156 | .03420 | .00970 | .00390 | .00970 | 40.00000 | -.11640 | .00580 | .00510 | -.00580 |
| .597 | 12.196 | .03450 | .00540 | -.00030 | .00970 | 40.00000 | -.11640 | .00510 | .00510 | -.00120 |
| .597 | 15.189 | .04700 | .01470 | .00320 | .00970 | 40.00000 | -.08270 | .02430 | .00510 | -.00061 |
| | GRADIENT | .00492 | -.00030 | -.00030 | .00000 | .00000 | -.00000 | -.00060 | .00000 | |

RUN NO. 726/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|---------|---------|----------|---------|---------|---------|---------|
| .799 | -4.991 | -.03350 | .01570 | -.01060 | .00970 | 40.00000 | -.11640 | .01150 | -.00980 | -.01150 |
| .799 | -.017 | .00210 | .01570 | -.01060 | .00970 | 40.00000 | -.11640 | .01150 | -.00980 | -.01150 |
| .799 | 2.543 | .00720 | .01570 | -.01060 | .00970 | 40.00000 | -.09620 | .01150 | -.00980 | -.01150 |
| .796 | 5.029 | .03460 | .01570 | -.01060 | .00970 | 40.00000 | -.08940 | .00580 | -.00980 | -.00580 |
| .796 | 7.135 | .02540 | .01290 | -.00780 | .00970 | 40.00000 | -.10290 | .00000 | -.00980 | -.00000 |
| .797 | 8.158 | .02750 | .01000 | -.00490 | .00970 | 40.00000 | -.09620 | .01730 | -.00980 | -.01730 |
| .801 | 10.166 | .03030 | .01860 | -.01350 | .00970 | 40.00000 | -.07590 | .01150 | -.00980 | -.01150 |
| .796 | 12.247 | .03670 | .01570 | -.01060 | .00970 | 40.00000 | -.08940 | .01150 | -.00980 | -.01150 |
| .797 | 15.274 | .03420 | .01570 | -.01060 | .00970 | 40.00000 | -.08940 | .00000 | -.00000 | -.00000 |
| | GRADIENT | .00564 | -.00000 | .00000 | -.00000 | -.00000 | .00232 | -.00000 | .00000 | |

RUN NO. 725/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|--------|---------|--------|----------|---------|---------|---------|---------|
| .900 | -4.916 | -.03940 | .01570 | -.01060 | .01940 | 40.00000 | -.08940 | .01150 | -.00980 | -.01150 |
| .909 | -.056 | -.02080 | .01570 | -.01060 | .00970 | 40.00000 | -.06240 | .01150 | -.00980 | -.01150 |
| .900 | 2.565 | .00600 | .01570 | -.01060 | .07760 | 40.00000 | -.10960 | .01150 | -.00980 | -.01150 |
| .899 | 5.058 | .03580 | .01570 | -.01060 | .00970 | 40.00000 | -.08270 | .01150 | -.00980 | -.01150 |
| .900 | 7.162 | .02960 | .01570 | -.01060 | .00970 | 40.00000 | -.12310 | .00580 | -.00980 | -.00580 |
| .900 | 8.174 | .02830 | .01290 | -.00780 | .00970 | 40.00000 | -.10960 | .00580 | -.00980 | -.00580 |
| .899 | 10.225 | .02990 | .01290 | -.00780 | .00970 | 40.00000 | -.08940 | .00580 | -.00980 | -.00580 |
| .899 | 12.232 | .02840 | .01570 | -.01060 | .00970 | 40.00000 | -.09620 | .01150 | -.00980 | -.01150 |
| .897 | 15.283 | .04010 | .01570 | -.01060 | .01940 | 40.00000 | -.09620 | .01150 | -.00980 | -.01150 |
| | GRADIENT | .00630 | .00000 | .00000 | .00655 | .00000 | -.00166 | -.00000 | -.00000 | |

0A145 TABULATED FORCE DATA

(C2F094) (08 JUL 77)

ANES 118-1-11 0A145A 01

DATE 10 MAR 80

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = 0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 40.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 717/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|--------|---------|---------|----------|---------|--------|---------|---------|---------|
| .950 | -5.032 | -.03760 | .01290 | -.00780 | .00970 | 40.00000 | -.09620 | .02000 | .00580 | -.00980 | -.00580 |
| .951 | -.005 | -.00240 | .01500 | -.00560 | .01940 | 40.00000 | -.09620 | .02000 | .01000 | -.00980 | -.00150 |
| .949 | 2.541 | .00980 | .01750 | -.00310 | .01940 | 40.00000 | -.08940 | .02500 | .01000 | -.00470 | -.00150 |
| .950 | 4.989 | .03250 | .01540 | -.00520 | .01940 | 40.00000 | -.10290 | .02500 | .00580 | -.00470 | -.00580 |
| .949 | 7.041 | .02790 | .01750 | -.00310 | .01940 | 40.00000 | -.07590 | .02500 | .01000 | -.00470 | -.00150 |
| .950 | 8.063 | .02590 | .01960 | -.00100 | .01940 | 40.00000 | -.07590 | .02500 | .01430 | -.00470 | -.00270 |
| .949 | 10.100 | .02580 | .01750 | -.00310 | .01940 | 40.00000 | -.09620 | .02500 | .01000 | -.00470 | -.00150 |
| .950 | 12.164 | .02000 | .01750 | -.00310 | .01940 | 40.00000 | -.10290 | .02500 | .01000 | -.00470 | -.00150 |
| .950 | 15.239 | .02350 | .01210 | -.00280 | .01940 | 40.00000 | -.04220 | .02000 | .00430 | -.00980 | -.00430 |
| | GRADIENT | .00697 | .00009 | .00009 | -.00000 | .00000 | -.00132 | .00101 | -.00084 | .00103 | -.00086 |

RUN NO. 713/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|---------|--------|---------|--------|----------|---------|--------|--------|---------|---------|
| 1.200 | -5.010 | -.03500 | .01290 | -.00780 | .00970 | 40.00000 | -.10290 | .02000 | .00580 | -.00980 | -.00580 |
| 1.203 | .004 | -.00150 | .01290 | -.00780 | .00970 | 40.00000 | -.09620 | .02000 | .00580 | -.00980 | -.00580 |
| 1.200 | 2.559 | .00360 | .01290 | -.00780 | .00970 | 40.00000 | -.09620 | .02000 | .00580 | -.00980 | -.00580 |
| 1.198 | 5.094 | .03280 | .01290 | -.00780 | .00970 | 40.00000 | -.08940 | .02000 | .00580 | -.00980 | -.00580 |
| 1.196 | 7.158 | .02690 | .01290 | -.00780 | .00970 | 40.00000 | -.08940 | .02000 | .00580 | -.00980 | -.00580 |
| 1.198 | 8.193 | .02390 | .01000 | -.00490 | .00970 | 40.00000 | -.08940 | .02000 | .00000 | -.00980 | -.00000 |
| 1.198 | 10.175 | .02320 | .01290 | -.00780 | .00970 | 40.00000 | -.10290 | .02000 | .00580 | -.00980 | -.00580 |
| 1.201 | 12.208 | .01340 | .01540 | -.00520 | .00970 | 40.00000 | -.10960 | .02500 | .00580 | -.00470 | -.00580 |
| 1.199 | 15.261 | .02660 | .01290 | -.00780 | .00970 | 40.00000 | -.11640 | .02000 | .00580 | -.00980 | -.00580 |
| | GRADIENT | .00200 | .00000 | .00000 | .00000 | .00000 | -.00000 | .00000 | .00000 | .00000 | -.00000 |

RUN NO. 710/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|----------|---------|---------|---------|----------|---------|---------|---------|---------|---------|
| 1.399 | -4.975 | -3.22370 | .02680 | .00120 | .01940 | 40.00000 | -.11640 | .03510 | .01850 | -.00450 | -.00700 |
| 1.405 | .032 | -.00430 | .01960 | -.00100 | .01940 | 40.00000 | -.09620 | .02500 | .01430 | -.00470 | -.00270 |
| 1.403 | 2.589 | .00050 | .02180 | -.00120 | .01940 | 40.00000 | -.09620 | .02500 | .01850 | -.00470 | -.00700 |
| 1.400 | 5.161 | .03020 | .01960 | -.00100 | .01940 | 40.00000 | -.08940 | .02500 | .01430 | -.00470 | -.00270 |
| 1.400 | 7.198 | .01860 | .01250 | -.00230 | .01940 | 40.00000 | -.10290 | .02500 | .00000 | -.00470 | -.00000 |
| 1.399 | 8.188 | .01860 | .01680 | -.00190 | .01940 | 40.00000 | -.10290 | .02500 | .00850 | -.00470 | -.00850 |
| 1.399 | 10.072 | .01450 | .01960 | -.00100 | .01940 | 40.00000 | -.10960 | .02500 | .01430 | -.00470 | -.00270 |
| 1.399 | 12.114 | .01080 | .01540 | -.00520 | .00970 | 40.00000 | -.10960 | .02500 | .01000 | -.00470 | -.00580 |
| 1.397 | 15.070 | .02870 | .01750 | -.00310 | .00970 | 40.00000 | -.10290 | .02500 | .01000 | -.00470 | -.00150 |
| | GRADIENT | .45617 | -.00077 | -.00006 | -.00000 | .00000 | .00286 | -.00143 | -.00012 | -.00003 | -.00012 |

OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

DATE 10 MAR 80

(C2F095) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPOBRK = 40.000 RUDDER = .000
RN/L = 5.000

RUN NO. 728/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|---------|---------|--------|----------|---------|---------|---------|---------|---------|
| .597 | -6.054 | 5.08210 | .02460 | -.00670 | .00970 | 40.00000 | -.13210 | .02490 | .02430 | -.01470 | .00120 |
| .596 | -1.926 | 5.04320 | .02460 | -.00670 | .00000 | 40.00000 | -.18590 | .02490 | .02430 | -.01470 | .00120 |
| .596 | -.881 | 5.01270 | .04930 | -.03150 | .00000 | 40.00000 | -.19490 | .07440 | .02430 | -.06420 | .00120 |
| .597 | .028 | 4.93410 | .04440 | -.02650 | .00000 | 40.00000 | -.20390 | .06450 | .02430 | -.05430 | .00120 |
| .597 | .642 | 5.04380 | .02210 | -.00430 | .00000 | 40.00000 | -.08940 | .02000 | .02430 | -.00980 | .00120 |
| .597 | 1.144 | 5.06520 | .01750 | -.00390 | .00000 | 40.00000 | -.08270 | .01500 | .02000 | -.00480 | -.00300 |
| .598 | 2.190 | 5.04880 | .01750 | -.00390 | .00000 | 40.00000 | -.10960 | .01500 | .02000 | -.00480 | -.00300 |
| .598 | 3.221 | 5.03260 | .01750 | -.00390 | .00000 | 40.00000 | -.11640 | .01500 | .02000 | -.00480 | -.00300 |
| .597 | 4.258 | 5.01640 | .01750 | -.00390 | .00000 | 40.00000 | -.12310 | .01500 | .02000 | -.00480 | -.00300 |
| .596 | 6.319 | 4.99010 | .01750 | -.00390 | .00000 | 40.00000 | -.14110 | .01500 | .02000 | -.00480 | -.00300 |
| | GRADIENT | .00248 | -.00380 | .00288 | .00000 | .00000 | .01436 | -.00668 | -.00092 | .00668 | -.00090 |

RUN NO. 727/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|--------|---------|--------|----------|---------|--------|--------|---------|--------|
| .800 | -6.098 | 5.16350 | .01570 | -.01060 | .00970 | 40.00000 | -.08940 | .02000 | .01150 | -.00980 | .00150 |
| .799 | -1.955 | 5.00890 | .01570 | -.01060 | .00970 | 40.00000 | -.19490 | .02000 | .01150 | -.00980 | .00150 |
| .799 | -.913 | 4.99020 | .01570 | -.01060 | .00970 | 40.00000 | -.10960 | .02000 | .01150 | -.00980 | .00150 |
| .799 | .094 | 4.82910 | .01570 | -.01060 | .00970 | 40.00000 | -.10290 | .02000 | .01150 | -.00980 | .00150 |
| .798 | .663 | 5.00020 | .01570 | -.01060 | .00970 | 40.00000 | -.09620 | .02000 | .01150 | -.00980 | .00150 |
| .799 | 1.158 | 5.01980 | .01570 | -.01060 | .00970 | 40.00000 | -.11640 | .02000 | .01150 | -.00980 | .00150 |
| .798 | 2.203 | 5.00150 | .01570 | -.01060 | .00970 | 40.00000 | -.12310 | .02000 | .01150 | -.00980 | .00150 |
| .797 | 3.249 | 4.98600 | .01570 | -.01060 | .00970 | 40.00000 | -.14110 | .02000 | .01150 | -.00980 | .00150 |
| .798 | 4.288 | 4.97030 | .01570 | -.01060 | .00970 | 40.00000 | -.18590 | .02000 | .01150 | -.00980 | .00150 |
| .797 | 6.355 | 4.94440 | .01570 | -.01060 | .00970 | 40.00000 | -.00365 | .00000 | .00000 | -.00000 | .00000 |
| | GRADIENT | .00138 | .00000 | -.00000 | .00000 | .00000 | .00365 | .00000 | .00000 | .00000 | .00000 |

RUN NO. 724/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|--------|---------|--------|----------|---------|--------|--------|---------|--------|
| .902 | -6.094 | 5.03450 | .01290 | -.00780 | .00970 | 40.00000 | -.08270 | .02000 | .00580 | -.00980 | .00580 |
| .902 | -1.962 | 5.04240 | .01820 | -.01310 | .01940 | 40.00000 | -.19490 | .02490 | .01150 | -.01470 | .00150 |
| .898 | -.906 | 5.02100 | .01820 | -.01310 | .01940 | 40.00000 | -.19490 | .02490 | .01150 | -.01470 | .00580 |
| .901 | .105 | 4.90210 | .01530 | -.01020 | .00970 | 40.00000 | -.12310 | .02490 | .00580 | -.01470 | .00580 |
| .899 | .656 | 4.98670 | .01570 | -.01060 | .01940 | 40.00000 | -.12310 | .02490 | .01150 | -.00980 | .00150 |
| .900 | 1.156 | 4.94320 | .01820 | -.01310 | .01940 | 40.00000 | -.11640 | .02490 | .01150 | -.01470 | .00150 |
| .902 | 2.223 | 4.95330 | .01820 | -.01310 | .01940 | 40.00000 | -.12310 | .02490 | .01150 | -.01470 | .00150 |
| .899 | 3.266 | 4.96240 | .01820 | -.01310 | .01940 | 40.00000 | -.15000 | .02490 | .01150 | -.01470 | .00150 |
| .900 | 4.304 | 4.97040 | .01820 | -.01310 | .01940 | 40.00000 | -.12310 | .02000 | .01150 | -.00980 | .00150 |
| .896 | 6.376 | 4.94120 | .01570 | -.01060 | .00970 | 40.00000 | -.00571 | .00007 | .00019 | -.00007 | .00019 |
| | GRADIENT | -.00687 | .00013 | -.00013 | .00031 | .00000 | .00571 | .00007 | .00019 | .00007 | .00019 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1129

AMES 118-1-11 OAI45A 01

(C2F095) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 40.000 RUDDER = .000
RN/L = 5.000

RUN NO. 718/ 0 RN/L = 5.07 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | ELV-1B | AIL-08 |
|------|----------|---------|--------|---------|--------|----------|---------|--------|---------|---------|
| .952 | -6.113 | 4.99130 | .01750 | -.00310 | .01940 | 40.00000 | -.10290 | .01000 | -.00470 | -.00150 |
| .952 | -1.975 | 4.98030 | .01750 | -.00310 | .01940 | 40.00000 | -.16800 | .01000 | -.00470 | -.00150 |
| .951 | -.927 | 4.96860 | .01960 | -.00100 | .01940 | 40.00000 | -.10960 | .01430 | -.00470 | .00270 |
| .951 | .148 | 5.00180 | .01960 | -.00100 | .01940 | 40.00000 | -.11640 | .01430 | -.00470 | .00270 |
| .950 | .636 | 4.99190 | .01960 | -.00100 | .00970 | 40.00000 | -.12310 | .01430 | -.00470 | .00270 |
| .950 | 1.158 | 4.98430 | .01710 | -.00350 | .00970 | 40.00000 | -.12310 | .01430 | -.00980 | .00270 |
| .950 | 2.217 | 4.95730 | .02180 | -.00120 | .01940 | 40.00000 | -.11640 | .01850 | -.00470 | .00700 |
| .948 | 3.268 | 4.93390 | .01920 | -.00140 | .01940 | 40.00000 | -.13210 | .01850 | -.00980 | .00700 |
| .951 | 4.310 | 4.91730 | .01920 | -.00140 | .01940 | 40.00000 | -.10290 | .01850 | -.00980 | .00700 |
| .948 | 6.380 | 4.87730 | .01920 | -.00140 | .01940 | 40.00000 | -.10290 | .01850 | -.00980 | .00700 |
| | GRADIENT | -.01066 | .00021 | .00021 | .00013 | .00000 | .00508 | .00131 | -.00089 | .00132 |

RUN NO. 714/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | ELV-1B | AIL-08 |
|-------|----------|---------|--------|---------|--------|----------|---------|--------|---------|---------|
| 1.203 | -6.126 | 5.20280 | .01290 | -.00780 | .00970 | 40.00000 | -.04220 | .00580 | -.00980 | -.00580 |
| 1.199 | -1.958 | 5.15620 | .01540 | -.00520 | .00970 | 40.00000 | -.10290 | .00580 | -.00470 | -.00580 |
| 1.201 | -.912 | 5.04050 | .01540 | -.00520 | .00970 | 40.00000 | -.10960 | .00580 | -.00470 | -.00580 |
| 1.199 | .136 | 5.09570 | .01540 | -.00520 | .00970 | 40.00000 | -.12310 | .00580 | -.00470 | -.00580 |
| 1.201 | .614 | 4.99940 | .01750 | -.00310 | .00970 | 40.00000 | -.12310 | .01000 | -.00470 | -.00150 |
| 1.200 | 1.134 | 4.98540 | .01960 | -.00100 | .00970 | 40.00000 | -.12310 | .01430 | -.00470 | .00270 |
| 1.201 | 2.193 | 4.99090 | .01960 | -.00100 | .00970 | 40.00000 | -.12310 | .01430 | -.00470 | .00270 |
| 1.200 | 3.244 | 4.97360 | .01540 | -.00520 | .00970 | 40.00000 | -.10960 | .00580 | -.00470 | -.00580 |
| 1.198 | 4.289 | 4.96340 | .01540 | -.00520 | .00970 | 40.00000 | -.12310 | .00580 | -.00470 | -.00580 |
| 1.199 | 6.358 | 4.94710 | .01540 | -.00520 | .00970 | 40.00000 | -.15000 | .00580 | -.00470 | -.00580 |
| | GRADIENT | -.02730 | .00012 | .00012 | .00000 | .00000 | -.00195 | .00025 | -.00000 | .00025 |

RUN NO. 708/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | ELV-1B | AIL-08 |
|-------|--------|---------|---------|---------|--------|----------|---------|---------|---------|---------|
| 1.407 | -6.245 | 5.08760 | .02180 | .00120 | .00970 | 40.00000 | -.12310 | .01850 | -.00470 | .00700 |
| 1.407 | -2.078 | 5.08260 | .02500 | .00540 | .00970 | 40.00000 | -.09620 | .02700 | -.00470 | .01550 |
| 1.406 | -.1028 | 5.09860 | .02810 | .00750 | .01940 | 40.00000 | -.12310 | .03130 | -.00470 | .01970 |
| 1.406 | .055 | 5.06810 | .01750 | -.00310 | .01940 | 40.00000 | -.12310 | .01000 | -.00470 | -.00150 |
| 1.406 | .571 | 5.04600 | .01960 | -.00100 | .01940 | 40.00000 | -.12310 | .01430 | -.00470 | .00270 |
| 1.406 | 1.101 | 5.04850 | .01960 | -.00100 | .01940 | 40.00000 | -.12310 | .01430 | -.00470 | .00270 |
| 1.406 | 2.148 | 5.04750 | .01960 | -.00100 | .01940 | 40.00000 | -.12310 | .01430 | -.00470 | .00270 |
| 1.405 | 3.199 | 5.05070 | .01960 | -.00100 | .01940 | 40.00000 | -.13210 | .01430 | -.00470 | .00270 |
| 1.404 | 4.245 | 5.05150 | .01960 | -.00100 | .01940 | 40.00000 | -.14110 | .01430 | -.00470 | .00270 |
| 1.404 | 6.358 | 5.05570 | .02390 | .00330 | .01940 | 40.00000 | -.17690 | .02280 | -.00470 | .01120 |
| 1.402 | | -.00581 | -.00113 | -.00113 | .00096 | .00000 | -.00514 | -.00224 | -.00000 | -.00225 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(CF096) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8100 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BOFLAP = .000 SPDBRK = 40.000
 RN/L = 5.000

RUN NO. 730/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|--------|---------|---------|----------|--------|--------|---------|
| .596 | -14.976 | 4.85810 | .04920 | .01290 | -.00360 | .00970 | 40.00000 | .01580 | .00010 | -.00730 |
| .597 | -10.727 | 4.85880 | .04600 | .01040 | -.00110 | .00970 | 40.00000 | .01580 | .00510 | -.00730 |
| .597 | -4.932 | 5.02800 | .04180 | .00750 | .00180 | .00000 | 40.00000 | .01000 | .00510 | -.00150 |
| .597 | -2.426 | 5.02820 | .03960 | .00750 | .00180 | .00970 | 40.00000 | .01000 | .00510 | -.00150 |
| .597 | -.089 | 5.02890 | .03730 | .00750 | .00180 | .00970 | 40.00000 | .01000 | .00510 | -.00150 |
| .597 | 2.505 | 5.02970 | .03400 | .00750 | .00180 | .00000 | 40.00000 | .01000 | .00510 | -.00150 |
| .597 | 4.996 | 5.01560 | .03090 | .00750 | .00180 | .00000 | 40.00000 | .01000 | .00510 | -.00150 |
| .598 | 10.027 | 5.01600 | .02650 | .00750 | .00180 | .00000 | 40.00000 | .01000 | .00510 | -.01880 |
| .597 | 14.970 | 5.01770 | .02220 | .01620 | -.00680 | .04850 | 40.00000 | .02730 | .00510 | -.00150 |
| .597 | 18.134 | 5.01730 | .02040 | .00750 | .00180 | .00970 | 40.00000 | .01000 | .00510 | -.00730 |
| .597 | 22.827 | 5.01740 | .01720 | .01040 | -.00110 | .00970 | 40.00000 | .01580 | .00510 | -.00730 |
| | GRADIENT | -.00095 | -.00111 | .00000 | .00000 | -.00040 | .00000 | .00000 | .00000 | -.00000 |

RUN NO. 721/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|--------|---------|---------|----------|--------|---------|---------|
| .900 | -14.976 | 4.90670 | .20000 | .02670 | -.00460 | .01940 | 40.00000 | .02850 | -.01470 | .00550 |
| .901 | -10.754 | 4.90650 | .18900 | .02670 | -.00460 | .02910 | 40.00000 | .02850 | -.01470 | .00550 |
| .902 | -4.947 | 4.90930 | .17570 | .02670 | -.00460 | .01940 | 40.00000 | .02850 | -.01470 | .00550 |
| .900 | -2.426 | 4.90790 | .16930 | .02880 | -.00250 | .01940 | 40.00000 | .03280 | -.01470 | .00970 |
| .902 | -.123 | 4.91270 | .14630 | .02600 | .00040 | .01940 | 40.00000 | .02700 | -.01470 | .01550 |
| .901 | 2.531 | 4.91290 | .13720 | .02880 | -.00250 | .00970 | 40.00000 | .03280 | -.01470 | .00970 |
| .899 | 10.027 | 5.05000 | .01720 | .02670 | -.00460 | .01940 | 40.00000 | .02850 | -.01470 | .00550 |
| .902 | 15.022 | 5.05360 | .01240 | .02380 | -.00170 | .00970 | 40.00000 | .02280 | -.01470 | .01120 |
| .901 | 18.116 | 5.05110 | .01020 | .02380 | -.00170 | .01940 | 40.00000 | .02280 | -.01470 | .01120 |
| .901 | 22.827 | 5.04860 | .00700 | .01530 | -.01020 | .01940 | 40.00000 | .00580 | -.01470 | -.00580 |
| .900 | GRADIENT | .00062 | -.00557 | .00015 | .00036 | -.00120 | .00000 | .00031 | .00000 | .00072 |

DATE 10 MAR 80

OA145 TABULATED FORCE DATA

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(C2F096) (08 JUL 77)

REFERENCE DATA

| | | | | | | | | | | |
|---|-------|---|-----------|--------|---|------|---|-----------|-----|----|
| ■ | SREF | = | 2690.0000 | SQ.FT. | ■ | XMRP | = | 1076.6800 | IN. | XO |
| ■ | LREF | = | 474.8100 | INCHES | ■ | YMRP | = | .0000 | IN. | YO |
| ■ | BREF | = | 936.6800 | INCHES | ■ | ZMRP | = | 375.0000 | IN. | ZO |
| ■ | SCALE | = | .0500 | | | | | | | |

PARAMETRIC DATA

| | |
|--------|---|
| ALPHA | 1 |
| ELEVON | 1 |
| BOFLAP | 1 |
| RN/L | 1 |

| | | |
|--------|---|--------|
| BETA | = | .000 |
| AILRON | = | .000 |
| SPDBRK | = | 40.000 |

| | | | | | | |
|---------|--------|--------|------|---------------------|--------|------|
| RUN NO. | 720/ 0 | RN/L = | 5.07 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|---------|--------|--------|------|---------------------|--------|------|

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|----------|---------|---------|---------|---------|---------|---------|----------|---------|---------|---------|---------|
| .952 | -14.993 | 4.98470 | .19470 | .02430 | -.00130 | .01940 | 40.00000 | .03000 | .01850 | -.00960 | .00700 |
| .951 | -10.745 | 4.98320 | .18050 | .02170 | -.00390 | .01940 | 40.00000 | .02490 | .01850 | -.01470 | .00700 |
| .951 | -4.924 | 4.98150 | .16860 | .02170 | -.00390 | .00970 | 40.00000 | .03000 | .01850 | -.00960 | .00700 |
| .950 | -2.426 | 4.97970 | .16310 | .02430 | -.00130 | .01940 | 40.00000 | .03000 | .01850 | -.00960 | .00700 |
| .952 | -1.103 | 4.98360 | .15650 | .02170 | -.00130 | .01940 | 40.00000 | .03000 | .01850 | -.00960 | .00700 |
| .950 | 2.513 | 4.98240 | .14980 | .02430 | -.00390 | .00970 | 40.00000 | .02490 | .01850 | -.01470 | .00700 |
| .951 | 3.308 | 4.98360 | .14650 | .02170 | -.00390 | .00970 | 40.00000 | .02490 | .01850 | -.01470 | .00700 |
| .951 | 5.033 | 4.98440 | .14220 | .02430 | -.00130 | .01940 | 40.00000 | .03000 | .01850 | -.00960 | .00700 |
| .951 | 10.019 | 4.98700 | .12990 | .02430 | -.00130 | .01940 | 40.00000 | .03000 | .01850 | -.00960 | .00700 |
| .951 | 15.022 | 4.98910 | .11820 | .02430 | -.00130 | .01940 | 40.00000 | .03000 | .01850 | -.00960 | .00700 |
| .951 | 18.134 | 4.99100 | .11110 | .02710 | -.00420 | .00970 | 40.00000 | .03000 | .02430 | -.00960 | .00120 |
| .950 | 22.827 | 4.99370 | .10220 | .02710 | -.00420 | .00970 | 40.00000 | .03000 | .02430 | -.00960 | .00120 |
| GRADIENT | .00031 | | -.00266 | -.00010 | -.00010 | -.00039 | .00000 | -.00020 | -.00000 | -.00020 | -.00000 |

| | | | | | | |
|---------|--------|--------|------|---------------------|--------|------|
| RUN NO. | 712/ 0 | RN/L = | 5.02 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|---------|--------|--------|------|---------------------|--------|------|

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|---------|---------|--------|---------|--------|----------|--------|--------|---------|---------|
| 1.200 | -14.965 | 4.99920 | .03340 | .01290 | -.00780 | .00970 | 40.00000 | .02000 | .00580 | -.00980 | -.00580 |
| 1.202 | -10.754 | 4.99350 | .03160 | .01540 | -.00520 | .00970 | 40.00000 | .02500 | .00580 | -.00470 | -.00580 |
| 1.201 | -4.947 | 4.99170 | .03000 | .01000 | -.00430 | .00970 | 40.00000 | .02000 | .00000 | -.00980 | .00000 |
| 1.199 | -2.451 | 4.99260 | .02880 | .01290 | -.00780 | .00970 | 40.00000 | .02000 | .00580 | -.00980 | -.00580 |
| 1.200 | -.096 | 4.99230 | .02660 | .01540 | -.00520 | .19410 | 40.00000 | .02500 | .00580 | -.00470 | -.00580 |
| 1.200 | 2.496 | 4.99220 | .02330 | .01540 | -.00520 | .00000 | 40.00000 | .02500 | .00580 | -.00470 | -.00580 |
| 1.201 | 5.024 | 4.99230 | .02140 | .01290 | -.00780 | .00970 | 40.00000 | .02000 | .00580 | -.00980 | -.00580 |
| 1.200 | 10.003 | 4.99510 | .01860 | .01540 | -.00520 | .00000 | 40.00000 | .02500 | .00580 | -.00470 | -.00580 |
| 1.201 | 15.005 | 4.99760 | .01590 | .01540 | -.00520 | .00970 | 40.00000 | .02500 | .00580 | -.00470 | -.00580 |
| 1.200 | 18.125 | 5.00290 | .01460 | .01540 | -.00520 | .00970 | 40.00000 | .02500 | .00580 | -.00470 | -.00580 |
| 1.200 | 22.818 | 5.00620 | .01300 | .01540 | -.00520 | .00970 | 40.00000 | .02500 | .00580 | -.00470 | -.00580 |
| 1.199 | GRADIENT | .07005 | -.00090 | .00075 | .00007 | .00579 | .00000 | .00080 | .00070 | .00082 | -.00070 |

DATE 10 MAR 80

OAI145 TABULATED FORCE DATA

PAGE 1132

AMES 118-1-11 OAI145A 01

(C2F096) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = 40.000
 RN/L = 5.000

RUN NO. 711/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-08 | AIL-18 | AIL-08 |
|-------|----------|---------|---------|--------|---------|---------|----------|---------|---------|---------|
| 1.407 | -14.993 | 4.94380 | .02900 | .01750 | -.00310 | .00970 | 40.00000 | .01000 | -.00470 | -.00150 |
| 1.406 | -10.745 | 4.94030 | .02750 | .02210 | -.00340 | .00970 | 40.00000 | .01430 | -.00960 | .00270 |
| 1.404 | -4.947 | 4.94020 | .02600 | .02180 | .00120 | .00970 | 40.00000 | .01850 | -.00470 | .00700 |
| 1.403 | -2.418 | 4.94110 | .02450 | .02180 | .00120 | .00970 | 40.00000 | .01850 | -.00470 | .00700 |
| 1.402 | -1.110 | 4.94190 | .02300 | .02180 | .00120 | .00970 | 40.00000 | .01430 | -.00960 | .00270 |
| 1.403 | 2.505 | 4.94130 | .02080 | .02210 | -.00340 | .00970 | 40.00000 | .01430 | -.00960 | .00270 |
| 1.402 | 5.005 | 4.94250 | .01960 | .02210 | -.00100 | .00970 | 40.00000 | .01430 | -.00470 | .00270 |
| 1.403 | 10.011 | 4.94450 | .01690 | .01960 | -.00340 | .00970 | 40.00000 | .01430 | -.00960 | .00270 |
| 1.403 | 15.022 | 4.94610 | .01460 | .02210 | -.00100 | .00970 | 40.00000 | .01430 | -.00470 | .00270 |
| 1.402 | 18.107 | 4.94880 | .01330 | .01960 | -.00100 | .00970 | 40.00000 | .01430 | -.00470 | .00270 |
| 1.402 | 22.780 | 4.95210 | .01160 | .01960 | -.00100 | .00970 | 40.00000 | .01430 | -.00470 | .00270 |
| 1.402 | GRADIENT | .00016 | -.00069 | .00004 | -.00057 | -.00000 | -.00000 | -.00052 | -.00060 | -.00053 |

AMES 118-1-11 OAI145A 01

(C2F097) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 40.000 RUDDER = -5.000
 RN/L = 5.000

RUN NO. 729/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-18 | AIL-08 |
|------|----------|---------|--------|---------|--------|----------|----------|--------|---------|---------|
| .598 | -6.019 | 5.07160 | .01750 | -.00390 | .00000 | 40.00000 | -4.93900 | .02000 | -.00480 | -.00300 |
| .598 | -1.918 | 5.00950 | .01290 | -.00360 | .00000 | 40.00000 | -4.94650 | .01580 | .00010 | -.00730 |
| .597 | -.881 | 4.97350 | .01290 | -.00360 | .00000 | 40.00000 | -4.95400 | .01580 | .00010 | -.00730 |
| .598 | .079 | 4.71380 | .01290 | -.00360 | .00000 | 40.00000 | -4.94650 | .01580 | .00010 | -.00730 |
| .597 | .627 | 4.97980 | .01290 | -.00360 | .00000 | 40.00000 | -4.95400 | .01580 | .00010 | -.00730 |
| .597 | 1.152 | 5.02140 | .01290 | -.00360 | .00000 | 40.00000 | -4.95400 | .01580 | .00010 | -.00730 |
| .597 | 2.199 | 5.00240 | .01290 | -.00360 | .00000 | 40.00000 | -4.95400 | .01580 | .00010 | -.00730 |
| .597 | 3.229 | 4.98700 | .01290 | -.00360 | .00000 | 40.00000 | -4.95400 | .01580 | .00010 | -.00730 |
| .597 | 4.265 | 4.97140 | .01290 | -.00360 | .00000 | 40.00000 | -4.95400 | .01580 | .00010 | -.00730 |
| .597 | 6.323 | 4.94730 | .01290 | -.00360 | .00000 | 40.00000 | -4.95400 | .01580 | .00010 | -.00730 |
| .597 | GRADIENT | .00695 | .00000 | -.00000 | .00000 | -.00000 | -.00136 | .00000 | .00000 | -.00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

AMES 118-1-11 OAI45A 01

(C2F097) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = 0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

ALPHA =
 AILRON =
 SPOBRK =
 RN/L =

5.000 ELEVON = .000
 .000 BDFLAP = .000
 40.000 RUDDER = -5.000
 5.000

PARAMETRIC DATA

RUN NO. 723/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-08 | AIL-08 | ELV-1B | AIL-1B |
|------|----------|---------|--------|---------|--------|----------|----------|--------|---------|--------|---------|
| .902 | -6.110 | 5.18120 | .01820 | -.01310 | .00970 | 40.00000 | -4.94650 | .01150 | -.01470 | .02490 | -.01470 |
| .900 | -1.948 | 4.97220 | .01530 | -.01020 | .00970 | 40.00000 | -4.96900 | .00580 | -.01470 | .02490 | -.01470 |
| .900 | -.904 | 4.95520 | .01820 | -.01310 | .00970 | 40.00000 | -4.97650 | .01150 | -.01470 | .02490 | -.01470 |
| .900 | .164 | 4.91440 | .01820 | -.01310 | .00970 | 40.00000 | -4.97650 | .01150 | -.01470 | .02490 | -.01470 |
| .899 | .662 | 5.07080 | .01820 | -.01310 | .00970 | 40.00000 | -4.97650 | .01150 | -.01470 | .02490 | -.01470 |
| .900 | 1.191 | 5.11470 | .01820 | -.01310 | .00970 | 40.00000 | -4.97650 | .01150 | -.01470 | .02490 | -.01470 |
| .898 | 2.231 | 5.08940 | .01820 | -.01310 | .00970 | 40.00000 | -4.97650 | .01150 | -.01470 | .02490 | -.01470 |
| .898 | 3.275 | 5.07360 | .01820 | -.01310 | .00970 | 40.00000 | -4.97650 | .01150 | -.01470 | .02490 | -.01470 |
| .899 | 4.312 | 5.05600 | .01820 | -.01310 | .00970 | 40.00000 | -4.97650 | .01150 | -.01470 | .02490 | -.01470 |
| .897 | 6.384 | 4.94140 | .01530 | -.01020 | .00970 | 40.00000 | -4.94650 | .00580 | -.01470 | .02490 | -.01470 |
| | GRADIENT | .02180 | .00029 | -.00029 | .00035 | .00000 | -.00263 | .00057 | -.00000 | .00000 | -.00057 |

RUN NO. 719/ 0 RN/L = 5.08 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-08 | AIL-08 | ELV-1B | AIL-1B |
|------|----------|---------|--------|---------|--------|----------|----------|--------|---------|--------|---------|
| .953 | -6.100 | 4.99520 | .02180 | .00120 | .00970 | 40.00000 | -4.94650 | .01850 | -.00470 | .02500 | -.00470 |
| .950 | -1.952 | 4.98300 | .02180 | .00120 | .00970 | 40.00000 | -4.95400 | .01850 | -.00470 | .02500 | -.00470 |
| .952 | -.903 | 4.97320 | .02180 | .00120 | .00970 | 40.00000 | -4.95400 | .01850 | -.00470 | .02500 | -.00470 |
| .951 | .169 | 5.00130 | .02180 | .00120 | .00970 | 40.00000 | -4.95400 | .01850 | -.00470 | .02500 | -.00470 |
| .951 | .646 | 4.99570 | .02170 | -.00390 | .00970 | 40.00000 | -4.95400 | .01850 | -.00470 | .02490 | -.00470 |
| .951 | 1.170 | 4.98470 | .02170 | -.00390 | .00970 | 40.00000 | -4.95400 | .01850 | -.00470 | .02490 | -.00470 |
| .949 | 2.228 | 4.95690 | .02430 | -.00130 | .00970 | 40.00000 | -4.96150 | .01850 | -.00960 | .03000 | -.00960 |
| .950 | 3.276 | 4.93420 | .02430 | -.00130 | .00970 | 40.00000 | -4.96900 | .01850 | -.00960 | .03000 | -.00960 |
| .950 | 4.318 | 4.91440 | .02170 | -.00390 | .00970 | 40.00000 | -4.97650 | .01850 | -.00960 | .02490 | -.00960 |
| .948 | 6.385 | 4.87740 | .02430 | -.00130 | .00970 | 40.00000 | -4.96150 | .01850 | -.00960 | .03000 | -.00960 |
| | GRADIENT | -.01161 | .00025 | -.00080 | .00000 | .00000 | -.00366 | .00000 | -.00158 | .00052 | -.00158 |

RUN NO. 715/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-08 | AIL-08 | ELV-1B | AIL-1B |
|-------|----------|---------|--------|---------|--------|----------|----------|--------|---------|--------|---------|
| 1.200 | -6.087 | 5.05370 | .01960 | -.00100 | .00970 | 40.00000 | -4.96900 | .01430 | -.00470 | .02500 | -.00470 |
| 1.200 | -1.944 | 5.01770 | .01710 | -.00350 | .00970 | 40.00000 | -4.99150 | .01430 | -.00980 | .02000 | -.00980 |
| 1.200 | -.897 | 5.00960 | .01710 | -.00350 | .00000 | 40.00000 | -4.97650 | .01430 | -.00980 | .02000 | -.00980 |
| 1.199 | .146 | 5.10120 | .01710 | -.00350 | .00970 | 40.00000 | -4.98400 | .01430 | -.00980 | .02000 | -.00980 |
| 1.200 | .642 | 5.04420 | .01920 | -.00140 | .00970 | 40.00000 | -4.98400 | .01430 | -.00980 | .02000 | -.00980 |
| 1.200 | 1.153 | 5.03130 | .01710 | -.00350 | .00970 | 40.00000 | -4.98400 | .01430 | -.00980 | .02000 | -.00980 |
| 1.200 | 2.207 | 5.00070 | .01920 | -.00140 | .00970 | 40.00000 | -4.98400 | .01430 | -.00980 | .02000 | -.00980 |
| 1.200 | 3.256 | 4.98160 | .01920 | -.00140 | .00970 | 40.00000 | -4.98400 | .01430 | -.00980 | .02000 | -.00980 |
| 1.199 | 4.296 | 4.96950 | .02140 | .00070 | .00970 | 40.00000 | -4.93900 | .02280 | -.00980 | .02000 | -.00980 |
| 1.199 | 6.361 | 4.95400 | .01710 | -.00350 | .00000 | 40.00000 | -4.93900 | .01430 | -.00980 | .02000 | -.00980 |
| 1.197 | GRADIENT | -.01069 | .00064 | -.00063 | .00064 | -.00000 | .00497 | .00127 | -.00000 | .00127 | -.00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1134

AMES 118-1-11 OAI45A 01

(C2F097) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 709/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-08 | ELV-1B | AIL-1B | AIL-0B |
|-------|----------|---------|--------|--------|--------|----------|----------|---------|---------|--------|---------|---------|
| 1.404 | -6.218 | 5.13280 | .02180 | .00120 | .00970 | 40.00000 | -4.96150 | .01850 | -.00470 | .02500 | -.00470 | .00700 |
| 1.409 | -2.071 | 5.09940 | .02180 | .00120 | .00970 | 40.00000 | -4.98400 | .01850 | -.00470 | .02500 | -.00470 | .00700 |
| 1.408 | -1.017 | 5.11210 | .02180 | .00120 | .00970 | 40.00000 | -4.98400 | .01850 | -.00470 | .02500 | -.00470 | .00700 |
| 1.407 | .057 | 5.06850 | .02180 | .00120 | .00970 | 40.00000 | -4.96900 | .01850 | -.00470 | .02500 | -.00470 | .00700 |
| 1.406 | .572 | 5.05740 | .02180 | .00120 | .00970 | 40.00000 | -4.93900 | .01850 | -.00470 | .02500 | -.00470 | .00700 |
| 1.407 | 1.107 | 5.06060 | .02180 | .00120 | .00970 | 40.00000 | -4.93900 | .01430 | -.00470 | .02500 | -.00470 | .00270 |
| 1.405 | 2.158 | 5.05990 | .01960 | .00100 | .00970 | 40.00000 | -4.93900 | .01430 | -.00470 | .02500 | -.00470 | .00270 |
| 1.405 | 3.203 | 5.06060 | .01960 | .00100 | .00970 | 40.00000 | -4.93900 | .01850 | -.00470 | .02500 | -.00470 | .00700 |
| 1.404 | 4.247 | 5.06150 | .02430 | .00370 | .00970 | 40.00000 | -4.93900 | .02280 | -.00470 | .02500 | -.00470 | .01120 |
| 1.404 | 6.359 | 5.06440 | .02390 | .00330 | .00970 | 40.00000 | -4.95400 | .02280 | -.00470 | .02500 | -.00470 | .01120 |
| 1.402 | GRADIENT | -.00735 | .00003 | .00003 | .00000 | .00000 | .00834 | -.00044 | .00052 | .00052 | .00052 | -.00045 |

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 40.000 RUDDER = -5.000
 RN/L = 5.000

AMES 118-1-11 OAI45A 01

(C2F098) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 585/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-08 | ELV-1B | AIL-1B | AIL-0B |
|------|----------|--------|---------|---------|--------|----------|---------|---------|---------|--------|---------|---------|
| .598 | -.02980 | -5.044 | .01500 | -.00560 | .00000 | 55.00000 | -.12310 | .01000 | -.00980 | .02000 | -.00980 | -.00150 |
| .598 | .00400 | -.053 | .01500 | -.00560 | .00000 | 55.00000 | -.12310 | .01000 | -.00980 | .02000 | -.00980 | -.00150 |
| .597 | .01120 | 2.496 | .01500 | -.00560 | .00000 | 55.00000 | -.14110 | .01000 | -.00980 | .02000 | -.00980 | -.00150 |
| .598 | .03940 | 4.995 | .01210 | -.00280 | .04850 | 55.00000 | -.14110 | .00430 | -.00980 | .02000 | -.00980 | .00430 |
| .599 | .03850 | 7.036 | .01000 | -.00490 | .00000 | 55.00000 | -.15900 | .00000 | -.00980 | .02000 | -.00980 | .00000 |
| .597 | .03890 | 8.071 | .01000 | -.00490 | .00000 | 55.00000 | -.15900 | .00430 | -.00980 | .02000 | -.00980 | .00430 |
| .597 | .03690 | 10.116 | .01210 | -.00280 | .00000 | 55.00000 | -.15900 | .01430 | -.00980 | .02000 | -.00980 | .00270 |
| .597 | .03040 | 12.179 | .01710 | -.00350 | .00000 | 55.00000 | -.14110 | .01430 | -.00980 | .02000 | -.00980 | .00850 |
| .599 | .04210 | 15.203 | .01420 | -.00060 | .00000 | 55.00000 | -.13210 | .00850 | -.00980 | .02000 | -.00980 | .00850 |
| .599 | GRADIENT | .00699 | -.00057 | .00055 | .00957 | .00000 | -.00358 | -.00112 | .00000 | .00000 | .00000 | .00114 |

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 55.000 RUDDER = 5.000
 RN/L = 5.000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

BETA =
AILRON =
SPDBRK =
RN/L =

ELEVON =
BDFLAP =
RUDDER =

PARAMETRIC DATA

RUN NO. 579/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|--------|---------|---------|--------|----------|---------|---------|---------|---------|
| .797 | -5.031 | .08650 | .01920 | -.00140 | .00000 | 55.00000 | -.15900 | .01850 | -.00980 | .00700 |
| .799 | .008 | .07670 | .01920 | -.00140 | .00970 | 55.00000 | -.15000 | .01850 | -.00980 | .00700 |
| .799 | 2.739 | .08420 | .01710 | -.00350 | .00970 | 55.00000 | -.13210 | .01430 | -.00980 | .00270 |
| .799 | 5.189 | .07100 | .01710 | -.00350 | .00000 | 55.00000 | -.12310 | .01430 | -.00980 | .00270 |
| .797 | 7.199 | .08600 | .01500 | -.00560 | .00000 | 55.00000 | -.12310 | .01000 | -.00980 | -.00150 |
| .798 | 8.265 | .10090 | .01500 | -.00560 | .00970 | 55.00000 | -.11640 | .01000 | -.00980 | -.00150 |
| .798 | 9.319 | .10870 | .01500 | -.00560 | .00970 | 55.00000 | -.13210 | .01000 | -.00980 | -.00150 |
| .799 | 10.184 | .11890 | .01500 | -.00560 | .03880 | 55.00000 | -.10960 | .01000 | -.00980 | -.00150 |
| .798 | 11.292 | .12730 | .01710 | -.00350 | .00000 | 55.00000 | -.10290 | .01430 | -.00980 | .00270 |
| .798 | 12.259 | .13750 | .01500 | -.00560 | .00970 | 55.00000 | -.10290 | .01000 | -.00980 | -.00150 |
| .798 | 15.278 | .17370 | .01500 | -.00560 | .00970 | 55.00000 | -.10290 | .01000 | -.00980 | -.00150 |
| .799 | GRADIENT | .00275 | -.00077 | -.00077 | .00000 | -.00000 | .00655 | -.00154 | .00000 | -.00157 |

RUN NO. 563/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|---------|--------|----------|---------|---------|---------|---------|
| .899 | -5.104 | -.04160 | .01500 | -.00560 | .01940 | 55.00000 | -.10960 | .01000 | -.00980 | -.00150 |
| .899 | -.126 | -.00530 | .01710 | -.00350 | .01940 | 55.00000 | -.10960 | .01430 | -.00980 | .00270 |
| .899 | 2.426 | -.00170 | .01710 | -.00350 | .01940 | 55.00000 | -.10960 | .01430 | -.00980 | .00270 |
| .902 | 4.982 | .03660 | .01500 | -.00560 | .01940 | 55.00000 | -.09620 | .01000 | -.00980 | -.00150 |
| .903 | 7.102 | .02220 | .01500 | -.00560 | .05820 | 55.00000 | -.09620 | .01000 | -.00980 | -.00150 |
| .898 | 8.114 | .01990 | .01500 | -.00560 | .01940 | 55.00000 | -.10290 | .01000 | -.00980 | -.00150 |
| .900 | 10.158 | .01910 | .01500 | -.00560 | .01940 | 55.00000 | -.09620 | .01000 | -.00980 | -.00150 |
| .901 | 12.223 | .01820 | .01500 | -.00560 | .01940 | 55.00000 | -.11640 | .01000 | -.00980 | -.00150 |
| .901 | 15.254 | .02610 | .01710 | -.00350 | .01940 | 55.00000 | -.10960 | .01430 | -.00980 | .00270 |
| .903 | GRADIENT | .00820 | -.00041 | -.00041 | .00000 | .00000 | .00262 | -.00084 | .00000 | -.00082 |

RUN NO. 560/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|--------|---------|---------|----------|---------|--------|---------|---------|
| .950 | -5.113 | -.04150 | .01790 | -.00850 | .01940 | 55.00000 | -.10290 | .01580 | -.00980 | -.00730 |
| .950 | -.082 | -.00530 | .01790 | -.00850 | .00970 | 55.00000 | -.10290 | .01580 | -.00980 | -.00730 |
| .950 | 2.462 | -.00110 | .01790 | -.00850 | .00970 | 55.00000 | -.10290 | .01000 | -.00980 | -.00150 |
| .951 | 5.051 | .03440 | .01500 | -.00560 | .01940 | 55.00000 | -.10290 | .01000 | -.00980 | -.00150 |
| .950 | 7.112 | .02050 | .01290 | -.00780 | .01940 | 55.00000 | -.10290 | .00580 | -.00980 | -.00580 |
| .950 | 8.145 | .01790 | .01790 | -.00850 | .01940 | 55.00000 | -.09620 | .01580 | -.00980 | -.00730 |
| .949 | 10.200 | .01700 | .01290 | -.00780 | .01940 | 55.00000 | -.10960 | .00580 | -.00980 | -.00580 |
| .949 | 12.223 | .01680 | .01290 | -.00780 | .01940 | 55.00000 | -.10960 | .00580 | -.00980 | -.00580 |
| .949 | 15.268 | .02610 | .01570 | -.01060 | .01940 | 55.00000 | -.10290 | .01150 | -.00980 | -.01150 |
| .954 | GRADIENT | .00165 | .00000 | .00000 | -.00000 | .00000 | .00000 | .00000 | .00000 | .00000 |

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OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(C2F098) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 55.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 551/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|---------|---------|---------|---------|----------|---------|---------|---------|--------|
| 1.100 | -5.114 | -0.3920 | .02920 | -.00250 | .01940 | 55.00000 | -.07590 | .03850 | -.00980 | .00400 |
| 1.102 | -.038 | -.01170 | .02210 | -.00430 | .00970 | 55.00000 | -.07530 | .02430 | -.00980 | .00120 |
| 1.098 | 2.479 | .00550 | .01680 | -.00110 | .00000 | 55.00000 | -.07590 | .01850 | -.00480 | .00700 |
| 1.099 | 5.060 | .02980 | .01460 | -.00100 | .00000 | 55.00000 | -.07590 | .01430 | -.00480 | .00270 |
| 1.102 | 7.125 | .01460 | .01750 | -.00390 | .00970 | 55.00000 | -.06920 | .02000 | -.00480 | .00300 |
| 1.101 | 8.145 | .01460 | .01460 | -.00100 | .01940 | 55.00000 | -.06920 | .01430 | -.00480 | .00270 |
| 1.100 | 10.194 | .01220 | .01710 | -.00350 | .00970 | 55.00000 | -.06920 | .01430 | -.00980 | .00270 |
| 1.102 | 12.227 | .00750 | .02000 | -.00640 | .00970 | 55.00000 | -.06240 | .02000 | -.00980 | .00270 |
| 1.099 | 15.268 | .01890 | .01710 | -.00350 | .00970 | 55.00000 | -.06240 | .01430 | -.00980 | .00270 |
| | GRADIENT | .00683 | -.00211 | .00215 | -.00385 | .00000 | .00000 | -.00199 | .00199 | .00230 |

RUN NO. 534/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|---------|---------|---------|--------|----------|---------|---------|---------|--------|
| 1.200 | -5.129 | -0.3680 | .02040 | -.00600 | .00970 | 55.00000 | -.12310 | .01580 | -.00470 | .00730 |
| 1.207 | -.860 | -.00490 | .01530 | -.01110 | .00000 | 55.00000 | -.12310 | .01580 | -.01490 | .00730 |
| 1.200 | 2.486 | .00420 | .01320 | -.01320 | .00970 | 55.00000 | -.11640 | .01150 | -.01490 | .01150 |
| 1.198 | 5.113 | .03070 | .01570 | -.01060 | .00970 | 55.00000 | -.11640 | .01150 | -.00980 | .01150 |
| 1.198 | 7.162 | .02360 | .01830 | -.00810 | .00000 | 55.00000 | -.11640 | .01150 | -.00470 | .01150 |
| 1.199 | 8.196 | .02040 | .01570 | -.01060 | .00000 | 55.00000 | -.11640 | .01150 | -.00980 | .01150 |
| 1.196 | 10.285 | .01820 | .01320 | -.01320 | .00000 | 55.00000 | -.10960 | .01150 | -.01490 | .01150 |
| 1.197 | 12.278 | .01670 | .01320 | -.01320 | .00000 | 55.00000 | -.10290 | .01150 | -.01490 | .01150 |
| 1.189 | 15.289 | .01890 | .01320 | -.01320 | .01940 | 55.00000 | -.10290 | .01150 | -.01490 | .01150 |
| | GRADIENT | .00272 | -.00063 | -.00063 | .00290 | .00000 | .00200 | -.00129 | .00000 | .00126 |

RUN NO. 533/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|---------|--------|---------|---------|----------|---------|---------|--------|--------|
| 1.300 | -5.130 | -0.3590 | .01080 | -.00070 | .00000 | 55.00000 | -.11640 | .01150 | .01020 | .01150 |
| 1.300 | -.032 | -.00110 | .00830 | -.00320 | .00000 | 55.00000 | -.10960 | .01150 | .00510 | .01150 |
| 1.297 | 2.460 | .00680 | .00830 | -.00320 | .00000 | 55.00000 | -.10290 | .01150 | .00510 | .01150 |
| 1.294 | 5.112 | .03020 | .00830 | -.00320 | -.01000 | 55.00000 | -.09620 | .01150 | .00510 | .01150 |
| 1.295 | 7.148 | .02260 | .00830 | -.00320 | -.01000 | 55.00000 | -.08270 | .01150 | .00510 | .01150 |
| 1.295 | 8.187 | .01880 | .00830 | -.00320 | -.01000 | 55.00000 | -.06920 | .01150 | .00510 | .01150 |
| 1.293 | 10.274 | .01650 | .00580 | -.00580 | -.01000 | 55.00000 | -.05570 | .01150 | .00000 | .01150 |
| 1.293 | 12.266 | .01300 | .00580 | -.00580 | -.02000 | 55.00000 | -.11640 | .01150 | .00000 | .01150 |
| 1.293 | 15.273 | .00850 | .00830 | -.00320 | -.02000 | 55.00000 | -.10290 | .01150 | .00510 | .01150 |
| | GRADIENT | .00397 | .00000 | .00000 | .00000 | .00000 | .00269 | -.00000 | .00000 | .00000 |

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OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

PAGE 1137
(C2F098) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

BETA =
AILRON =
SPDBRK =
RN/L =

ELEVON = .000
BOFLAP = .000
RUDDER = .000

RUN NO. 514/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-08 | AIL-08 | AIL-08 |
|-------|----------|---------|---------|---------|---------|----------|---------|---------|---------|---------|
| 1.400 | -5.109 | -0.3470 | .02050 | -.00090 | .04850 | 55.00000 | -.13210 | .01580 | .00540 | -.00730 |
| 1.410 | -5.042 | -.00170 | .01330 | -.00820 | .02910 | 55.00000 | -.14110 | .01150 | -.00480 | -.01150 |
| 1.406 | 2.430 | .00090 | .01040 | -.00530 | .01940 | 55.00000 | -.13210 | .00580 | -.00480 | -.00580 |
| 1.402 | 5.011 | .02480 | .01330 | -.00820 | .01940 | 55.00000 | -.14110 | .01150 | -.00480 | -.01150 |
| 1.401 | 7.037 | .01890 | .01040 | -.00530 | .03880 | 55.00000 | -.14110 | .00580 | -.00480 | -.00580 |
| 1.401 | 8.168 | .01480 | .00790 | -.00280 | .03880 | 55.00000 | -.13210 | .01150 | -.00480 | -.00580 |
| 1.399 | 10.214 | .01360 | .01330 | -.00820 | .03880 | 55.00000 | -.14110 | .01150 | -.00480 | -.01150 |
| 1.399 | 12.223 | .01020 | .01070 | -.01070 | .02910 | 55.00000 | -.13210 | .01150 | -.00990 | -.01150 |
| 1.396 | 15.289 | .01190 | .01070 | -.01070 | .03880 | 55.00000 | -.13210 | .01150 | -.00990 | -.01150 |
| | GRADIENT | .00105 | -.00117 | .00117 | -.00392 | .00000 | .00364 | -.00231 | .00000 | .00231 |

AMES 118-1-11 OAI45A 01

(C2F099) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

BETA =
AILRON =
SPDBRK =
RN/L =

ELEVON = 2.000
BOFLAP = .000
RUDDER = 55.000

RUN NO. 872/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-08 | AIL-08 | AIL-08 |
|------|----------|---------|---------|---------|--------|----------|---------|--------|--------|---------|
| .597 | -5.234 | 1.93480 | .02550 | -.00090 | .00970 | 55.00000 | -.10290 | .01580 | .00550 | -.00730 |
| .599 | -2.258 | 2.01560 | .02550 | -.00090 | .00970 | 55.00000 | -.10290 | .01380 | .00550 | -.00730 |
| .598 | 2.258 | 2.02040 | .02550 | -.00090 | .00970 | 55.00000 | -.10290 | .01580 | .00550 | -.00730 |
| .597 | 4.946 | 2.04580 | .02300 | .00160 | .00970 | 55.00000 | -.10290 | .01580 | .01050 | -.00730 |
| .597 | 7.993 | 1.99360 | .02050 | -.00090 | .00970 | 55.00000 | -.10290 | .01580 | .00540 | -.00730 |
| .597 | 10.079 | 2.07240 | .01760 | -.00190 | .00970 | 55.00000 | -.10290 | .01000 | .00540 | -.00150 |
| .597 | 12.070 | 2.01280 | .02300 | .00160 | .00970 | 55.00000 | -.10290 | .01580 | .01050 | -.00730 |
| .596 | 15.068 | 2.00600 | .02050 | -.00090 | .00970 | 55.00000 | -.10290 | .01580 | .00540 | -.00300 |
| .597 | 17.057 | 2.00990 | .02260 | .00120 | .00970 | 55.00000 | -.10290 | .02000 | .00540 | -.00300 |
| .597 | 19.010 | 2.01760 | .02050 | -.00090 | .00970 | 55.00000 | -.10290 | .01580 | .00540 | -.00730 |
| | GRADIENT | .00585 | -.00049 | .00049 | .00000 | -.00000 | -.00000 | .00000 | .00097 | .00000 |

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AMES 118-1-11 OAI45A 01

(C2F099) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BOFLAP = .000
SPDBRK = 55.000 RUDDER = .000
RN/L = 5.000

RUN NO. 871/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|--------|---------|--------|----------|---------|--------|--------|---------|
| .797 | -5.254 | 1.95810 | .02010 | -.00050 | .00970 | 55.00000 | -.10960 | .01000 | .00040 | -.00150 |
| .801 | -.257 | 2.02990 | .02010 | -.00050 | .00970 | 55.00000 | -.10290 | .01000 | .00040 | -.00150 |
| .798 | 2.268 | 2.02920 | .02010 | -.00050 | .00970 | 55.00000 | -.10290 | .01000 | .00040 | -.00150 |
| .798 | 4.921 | 2.07060 | .02010 | -.00050 | .00970 | 55.00000 | -.09620 | .01000 | .00040 | -.00150 |
| .799 | 8.071 | 2.04360 | .02010 | -.00050 | .00970 | 55.00000 | -.09620 | .01000 | .00040 | -.00150 |
| .799 | 10.083 | 2.03870 | .02010 | -.00050 | .00970 | 55.00000 | -.09620 | .01000 | .00040 | -.00150 |
| .798 | 12.073 | 2.04540 | .02010 | -.00050 | .00970 | 55.00000 | -.08940 | .01000 | .00040 | -.00150 |
| .798 | 15.140 | 2.02910 | .02290 | -.00340 | .01940 | 55.00000 | -.08270 | .02000 | .00040 | -.00300 |
| .799 | 17.091 | 2.03960 | .02510 | -.00130 | .01940 | 55.00000 | -.10960 | .02000 | .00040 | -.00300 |
| .800 | 19.027 | 2.06320 | .02510 | -.00130 | .01940 | 55.00000 | -.00130 | .02000 | .00040 | -.00000 |
| | GRADIENT | .00793 | .00000 | -.00000 | .00000 | .00000 | .00130 | .00000 | .00000 | .00000 |

RUN NO. 870/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|---------|---------|----------|---------|---------|---------|---------|
| .899 | -5.282 | 1.96260 | .02010 | -.00050 | .01940 | 55.00000 | -.10960 | .01000 | .00040 | -.00150 |
| .900 | -.263 | 2.03710 | .02010 | -.00050 | .00970 | 55.00000 | -.10290 | .01000 | .00040 | -.00150 |
| .899 | 2.287 | 2.04370 | .02260 | .00200 | .01940 | 55.00000 | -.10290 | .01000 | .00550 | -.00150 |
| .899 | 4.940 | 2.08490 | .02010 | -.00050 | .00970 | 55.00000 | -.10290 | .01000 | .00040 | -.00150 |
| .899 | 8.074 | 2.04040 | .02010 | -.00050 | .00970 | 55.00000 | -.10290 | .01000 | .00040 | -.00150 |
| .899 | 10.126 | 2.03570 | .02010 | -.00050 | .01940 | 55.00000 | -.09620 | .01000 | .00040 | -.00150 |
| .900 | 12.120 | 2.04260 | .02010 | -.00050 | .01940 | 55.00000 | -.10290 | .01000 | .00040 | -.00150 |
| .899 | 15.143 | 2.03910 | .02220 | .00160 | .01940 | 55.00000 | -.10960 | .01430 | .00040 | -.00270 |
| .899 | 17.109 | 2.04540 | .02220 | .00160 | .01940 | 55.00000 | -.11640 | .01430 | .00040 | -.00270 |
| .899 | 19.064 | 2.06650 | .02510 | -.00130 | .01940 | 55.00000 | -.10960 | .02000 | .00040 | -.00300 |
| | GRADIENT | .00923 | -.00001 | -.00001 | -.00002 | .00000 | .00000 | -.00000 | -.00001 | .00000 |

RUN NO. 869/ 0 RN/L = 5.08 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|--------|---------|--------|----------|---------|--------|---------|---------|
| .951 | -5.286 | 1.96180 | .02720 | .00170 | .01940 | 55.00000 | -.09620 | .01430 | .00050 | -.00270 |
| .951 | -.247 | 2.03220 | .02250 | -.00300 | .01940 | 55.00000 | -.10290 | .01000 | .00050 | -.00150 |
| .950 | 2.285 | 2.02970 | .02010 | -.00050 | .01940 | 55.00000 | -.09620 | .01000 | .00040 | -.00150 |
| .951 | 4.918 | 2.09350 | .02470 | -.00090 | .01940 | 55.00000 | -.08940 | .01430 | -.00450 | -.00270 |
| .950 | 8.108 | 2.05220 | .02470 | -.00090 | .01940 | 55.00000 | -.10290 | .01430 | -.00450 | -.00270 |
| .950 | 10.129 | 2.04730 | .02470 | -.00090 | .01940 | 55.00000 | -.10290 | .01430 | -.00450 | -.00270 |
| .951 | 12.126 | 2.01730 | .02430 | .00370 | .01940 | 55.00000 | -.10960 | .01850 | .00040 | -.00700 |
| .951 | 15.148 | 2.04160 | .02470 | .00410 | .01940 | 55.00000 | -.10960 | .01430 | .00550 | -.00270 |
| .949 | 17.126 | 2.05270 | .02470 | .00410 | .01940 | 55.00000 | -.10960 | .01430 | .00550 | -.00270 |
| .950 | 19.082 | 2.07060 | .02220 | .00160 | .01940 | 55.00000 | -.10290 | .01430 | .00040 | -.00270 |
| | GRADIENT | .01195 | .00043 | .00040 | .00000 | -.00000 | .00261 | .00084 | -.00001 | .00082 |

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OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(C2F089) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 55.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 868/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-08 | ELV-18 | AIL-18 | ELV-08 | AIL-08 |
|-------|----------|---------|--------|---------|---------|----------|---------|--------|---------|---------|---------|--------|---------|
| 1.197 | -5.270 | 1.98010 | .02510 | -.00050 | .00970 | 55.00000 | -.11640 | .01000 | -.00150 | .00060 | -.00150 | .01000 | -.00150 |
| 1.202 | -.237 | 2.02870 | .02720 | .00170 | .00970 | 55.00000 | -.11640 | .01430 | .00060 | .00060 | .00060 | .01430 | .00060 |
| 1.201 | 2.298 | 2.02860 | .02470 | -.00090 | .00970 | 55.00000 | -.11640 | .01430 | -.00450 | -.00450 | -.00450 | .01430 | .00270 |
| 1.199 | 4.915 | 2.07950 | .02720 | .00170 | .00970 | 55.00000 | -.11640 | .01430 | .00270 | .00270 | .00270 | .01430 | .00270 |
| 1.198 | 8.078 | 2.09120 | .02720 | .00170 | .00970 | 55.00000 | -.11640 | .01430 | .00270 | .00270 | .00270 | .01430 | .00270 |
| 1.200 | 10.119 | 2.02230 | .02720 | .00170 | .00970 | 55.00000 | -.10960 | .01430 | .00060 | .00060 | .00060 | .01430 | .00270 |
| 1.200 | 12.122 | 2.03050 | .02720 | .00170 | .00970 | 55.00000 | -.11640 | .01430 | .00060 | .00060 | .00060 | .01430 | .00270 |
| 1.199 | 15.136 | 2.05180 | .02470 | -.00090 | .01940 | 55.00000 | -.11640 | .01430 | -.00450 | -.00450 | -.00450 | .01430 | .00270 |
| 1.200 | 17.129 | 2.07550 | .02250 | -.00300 | .01940 | 55.00000 | -.11640 | .01000 | -.00450 | -.00450 | -.00450 | .01000 | -.00150 |
| 1.198 | 19.063 | 2.10360 | .02250 | -.00300 | .01940 | 55.00000 | -.10960 | .01000 | -.00450 | -.00450 | -.00450 | .01000 | -.00150 |
| | GRADIENT | .00991 | .00001 | .00001 | -.00000 | -.00000 | .00000 | .00000 | .00001 | .00001 | .00001 | .00000 | -.00000 |

RUN NO. 867/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-08 | ELV-18 | AIL-18 | ELV-08 | AIL-08 |
|-------|----------|---------|--------|---------|---------|----------|---------|--------|---------|--------|---------|--------|---------|
| 1.295 | -5.259 | 1.97180 | .01950 | -.00600 | .01940 | 55.00000 | -.11640 | .01430 | -.01470 | .02490 | -.01470 | .01430 | .00270 |
| 1.300 | -.251 | 2.03640 | .01750 | -.00810 | .01940 | 55.00000 | -.11640 | .01000 | -.01470 | .02490 | -.01470 | .01000 | -.00150 |
| 1.297 | 2.278 | 2.07810 | .01960 | -.00600 | .01940 | 55.00000 | -.11640 | .01430 | -.01470 | .02490 | -.01470 | .01430 | .00270 |
| 1.297 | 4.931 | 2.10020 | .01960 | -.00600 | .01940 | 55.00000 | -.11640 | .01430 | -.01470 | .02490 | -.01470 | .01430 | .00270 |
| 1.295 | 8.092 | 2.09650 | .01960 | -.00600 | .01940 | 55.00000 | -.11640 | .01430 | -.01470 | .02490 | -.01470 | .01430 | .00270 |
| 1.295 | 10.108 | 2.03120 | .01490 | -.01070 | .01940 | 55.00000 | -.11640 | .01000 | -.01980 | .01980 | -.01980 | .01000 | -.00150 |
| 1.294 | 12.148 | 2.03610 | .01950 | -.00600 | .01940 | 55.00000 | -.11640 | .01430 | -.01470 | .02490 | -.01470 | .01430 | .00270 |
| 1.294 | 15.151 | 2.04980 | .01960 | -.00600 | .00970 | 55.00000 | -.11640 | .01430 | -.01470 | .02490 | -.01470 | .01430 | .00270 |
| 1.293 | 17.114 | 2.07350 | .01960 | -.00600 | .01940 | 55.00000 | -.10960 | .01430 | -.01470 | .02490 | -.01470 | .01430 | .00270 |
| 1.291 | 19.048 | 2.09630 | .02250 | -.00300 | .01940 | 55.00000 | -.10290 | .01000 | -.00450 | .03510 | -.00450 | .01000 | -.00150 |
| | GRADIENT | .01228 | .00040 | .00040 | -.00000 | -.00000 | .00000 | .00082 | .00000 | .00000 | .00000 | .00082 | .00080 |

RUN NO. 866/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-08 | ELV-18 | AIL-18 | ELV-08 | AIL-08 |
|-------|----------|---------|---------|---------|---------|----------|---------|---------|---------|--------|---------|---------|--------|
| 1.402 | -5.275 | 2.09560 | .02170 | -.00390 | .01940 | 55.00000 | -.12310 | .01850 | -.01470 | .02490 | -.01470 | .01850 | .00700 |
| 1.407 | -.240 | 2.14720 | .01700 | -.00850 | .01940 | 55.00000 | -.11640 | .01430 | -.01980 | .01980 | -.01980 | .01430 | .00270 |
| 1.404 | 2.257 | 2.20390 | .01700 | -.00850 | .01940 | 55.00000 | -.11640 | .01430 | -.01980 | .01980 | -.01980 | .01430 | .00270 |
| 1.402 | 4.877 | 2.25830 | .01700 | -.00850 | .01940 | 55.00000 | -.12310 | .01430 | -.01980 | .01980 | -.01980 | .01430 | .00270 |
| 1.401 | 8.079 | 2.12950 | .01700 | -.00850 | .01940 | 55.00000 | -.11640 | .01430 | -.01980 | .01980 | -.01980 | .01430 | .00270 |
| 1.402 | 10.059 | 2.12390 | .01950 | -.01100 | .01940 | 55.00000 | -.11640 | .01430 | -.02480 | .02480 | -.02480 | .01430 | .00270 |
| 1.403 | 12.109 | 2.13950 | .01960 | -.00600 | .01940 | 55.00000 | -.11640 | .01430 | -.01470 | .02490 | -.01470 | .01430 | .00270 |
| 1.401 | 15.094 | 2.15700 | .01420 | -.00570 | .01940 | 55.00000 | -.11640 | .00850 | -.01960 | .01960 | -.01960 | .00850 | .00850 |
| 1.397 | 17.103 | 2.18450 | .01960 | -.00600 | .01940 | 55.00000 | -.11640 | .01430 | -.01470 | .02490 | -.01470 | .01430 | .00270 |
| 1.392 | 19.032 | 2.20580 | .01710 | -.00350 | .01940 | 55.00000 | -.11640 | .01430 | -.00960 | .02000 | -.00960 | .01430 | .00270 |
| | GRADIENT | .02170 | -.00000 | .00000 | -.00000 | .00000 | -.00132 | -.00000 | .00000 | .00000 | .00000 | -.00000 | .00000 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPOBRK = 55.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 590/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|--------|--------|---------|---------|----------|---------|--------|--------|---------|---------|
| .598 | -6.073 | .09480 | .02240 | -.01310 | .00000 | 55.00000 | -.03550 | .03480 | .01000 | -.02460 | -.00150 |
| .598 | -1.986 | .05470 | .01950 | -.01020 | .00970 | 55.00000 | -.25770 | .03480 | .00430 | -.02460 | -.00430 |
| .598 | -.941 | .05380 | .02240 | -.01310 | .00000 | 55.00000 | -.28460 | .03480 | .01000 | -.02460 | -.00150 |
| .597 | .105 | .05030 | .02240 | -.01310 | .00000 | 55.00000 | -.30250 | .03480 | .01000 | -.02460 | -.00150 |
| .598 | .614 | .06560 | .01950 | -.01020 | .00000 | 55.00000 | -.30250 | .03480 | .00430 | -.02460 | -.00430 |
| .598 | 1.132 | .09230 | .02240 | -.01310 | .00000 | 55.00000 | -.31150 | .03480 | .01000 | -.02460 | -.00150 |
| .598 | 2.170 | .08880 | .02240 | -.01310 | .00000 | 55.00000 | .05890 | .03480 | .01000 | -.02460 | -.00150 |
| .597 | 3.195 | .09860 | .02490 | -.01550 | .00000 | 55.00000 | -.27560 | .03980 | .01000 | -.02960 | -.00150 |
| .597 | 4.225 | .10600 | .02490 | -.01550 | .00000 | 55.00000 | -.30250 | .03980 | .01000 | -.02960 | -.00150 |
| .597 | 6.258 | .12840 | .02490 | -.01550 | .00000 | 55.00000 | -.04900 | .03980 | .01000 | -.02960 | -.00150 |
| .597 | 8.260 | .13360 | .02490 | -.01550 | .00000 | 55.00000 | -.04220 | .03980 | .01000 | -.02960 | -.00150 |
| .597 | GRADIENT | .00983 | .00077 | -.00076 | -.00098 | .00000 | .00939 | .00088 | .00066 | -.00088 | -.00067 |

RUN NO. 575/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|---------|---------|--------|----------|---------|---------|--------|---------|---------|
| .798 | -6.247 | .06800 | .01530 | -.01020 | .00970 | 55.00000 | -.12310 | .02490 | .00580 | -.01470 | -.00580 |
| .798 | -2.133 | -.08110 | .01530 | -.01020 | .00970 | 55.00000 | -.22180 | .02490 | .00580 | -.01470 | -.00580 |
| .798 | -1.080 | .09260 | .01530 | -.01020 | .00970 | 55.00000 | -.23970 | .02490 | .00580 | -.01470 | -.00580 |
| .799 | .001 | -.11530 | .01530 | -.01020 | .00970 | 55.00000 | -.08940 | .02490 | .00580 | -.01470 | -.00580 |
| .799 | .521 | -.11290 | .01530 | -.01020 | .00970 | 55.00000 | -.07590 | .02490 | .00580 | -.01470 | -.00580 |
| .799 | 1.046 | -.09400 | .01530 | -.01020 | .00970 | 55.00000 | -.06920 | .02490 | .00580 | -.01470 | -.00580 |
| .799 | 2.109 | -.08400 | .01530 | -.01020 | .00970 | 55.00000 | -.06920 | .02000 | .00580 | -.00980 | -.00580 |
| .799 | 3.155 | -.07850 | .01290 | -.00780 | .00970 | 55.00000 | -.13210 | .02490 | .00580 | -.01470 | -.00580 |
| .798 | 4.199 | -.07350 | .01530 | -.01020 | .00970 | 55.00000 | -.08270 | .02490 | .00580 | -.01470 | -.00580 |
| .797 | 6.268 | -.06410 | .01530 | -.01020 | .00970 | 55.00000 | -.02200 | .02490 | .00580 | -.01470 | -.00580 |
| .796 | 8.330 | -.06090 | .01530 | -.01020 | .00970 | 55.00000 | -.01818 | .02490 | .00000 | -.00034 | -.00000 |
| .796 | GRADIENT | .00310 | -.00017 | .00017 | .00000 | .00000 | .01818 | -.00034 | .00000 | .00034 | .00000 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

MACH = .899
 .901
 .900
 .899
 .900
 .899
 .900
 .898
 .900
 .898
 .896
 .896

ALPHA =
 AILRON =
 SPOBRK =
 RN/L =

ELEVON =
 BDFLAP =
 RUDDER =

RUN NO. 572/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|--------|---------|--------|----------|---------|--------|--------|---------|---------|
| .899 | -6.253 | .06480 | .01920 | -.00140 | .00970 | 55.00000 | -.08940 | .02000 | .01850 | -.00980 | .00700 |
| .901 | -2.129 | -.08050 | .01920 | -.00140 | .01940 | 55.00000 | -.23970 | .02000 | .01850 | -.00980 | .00700 |
| .900 | -1.070 | -.11610 | .01920 | -.00140 | .00970 | 55.00000 | -.27560 | .02000 | .01850 | -.00980 | .00700 |
| .899 | .015 | -.13600 | .01920 | -.00140 | .00970 | 55.00000 | -.30250 | .02000 | .01850 | -.00980 | .00700 |
| .900 | .537 | -.14310 | .01920 | -.00140 | .00970 | 55.00000 | -.08270 | .02000 | .01850 | -.00980 | .00700 |
| .899 | 1.064 | -.12670 | .01920 | -.00140 | .00970 | 55.00000 | -.09620 | .02000 | .01850 | -.00980 | .00700 |
| .898 | 2.132 | -.12210 | .01920 | -.00140 | .00970 | 55.00000 | -.12310 | .02000 | .01850 | -.00980 | .00700 |
| .900 | 3.184 | -.11590 | .01920 | -.00140 | .01940 | 55.00000 | -.15000 | .02000 | .01850 | -.00980 | .00700 |
| .898 | 4.228 | -.11910 | .01920 | -.00140 | .01940 | 55.00000 | -.21280 | .02000 | .01850 | -.00980 | .00700 |
| .896 | 6.307 | -.11840 | .01920 | -.00140 | .01940 | 55.00000 | -.28460 | .02000 | .01850 | -.00980 | .00700 |
| .896 | 8.372 | -.12620 | .01500 | -.00560 | .00970 | 55.00000 | -.12310 | .02000 | .01000 | -.00980 | -.00150 |
| | GRADIENT | -.00303 | .00000 | -.00000 | .00070 | .00000 | .01543 | .00000 | .00000 | -.00000 | .00000 |

RUN NO. 553/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|---------|---------|--------|----------|---------|--------|---------|---------|---------|
| .951 | -6.277 | .10360 | .01420 | -.00060 | .03880 | 55.00000 | -.08270 | .02000 | .00850 | -.00980 | .00850 |
| .952 | -2.137 | -.01830 | .01710 | -.00350 | .01940 | 55.00000 | -.10960 | .02000 | .01430 | -.00980 | .00270 |
| .950 | -1.078 | -.04690 | .01710 | -.00350 | .01940 | 55.00000 | -.12310 | .02000 | .01430 | -.00980 | .00270 |
| .949 | .005 | -.06800 | .01710 | -.00350 | .01940 | 55.00000 | -.12310 | .02000 | .00850 | -.00980 | .00850 |
| .951 | .531 | -.07970 | .01420 | -.00060 | .01940 | 55.00000 | -.12310 | .02000 | .01430 | -.00980 | .00270 |
| .950 | 1.053 | -.06520 | .01710 | -.00350 | .01940 | 55.00000 | -.12310 | .02000 | .01430 | -.00980 | .00270 |
| .948 | 2.125 | -.06630 | .01710 | -.00350 | .01940 | 55.00000 | -.10960 | .02000 | .01000 | -.00980 | -.00150 |
| .948 | 3.176 | -.06720 | .01500 | -.00560 | .01940 | 55.00000 | -.11640 | .02000 | .00580 | -.00980 | -.00580 |
| .947 | 4.223 | -.07240 | .01290 | -.00780 | .01940 | 55.00000 | -.12310 | .02000 | .01850 | -.00980 | .00700 |
| .946 | 6.307 | -.07950 | .01920 | -.00140 | .00970 | 55.00000 | -.12310 | .02490 | .01850 | -.01470 | .00700 |
| .945 | 8.372 | -.09420 | .02170 | -.00390 | .00970 | 55.00000 | -.12310 | .00000 | -.00108 | -.00000 | -.00124 |
| | GRADIENT | -.00642 | -.00053 | -.00062 | .00000 | -.00000 | .00028 | .00000 | | | |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1142

AMES 118-1-11 OAI45A 01

(C2F0A0) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

RUN NO. 542/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|---------|---------|---------|--------|----------|---------|---------|---------|---------|---------|
| 1.201 | -6.263 | .19520 | .01960 | -.00600 | .02910 | 55.00000 | -.12310 | .02490 | .01430 | -.01470 | .00270 |
| 1.203 | -2.120 | -.05090 | .01960 | -.00600 | .01940 | 55.00000 | -.11640 | .02490 | .01430 | -.01470 | .00270 |
| 1.202 | -1.069 | -.11980 | .01960 | -.00600 | .01940 | 55.00000 | -.10960 | .02490 | .01430 | -.01470 | .00270 |
| 1.202 | .012 | -.13980 | .01920 | -.00640 | .01940 | 55.00000 | -.10960 | .01980 | .01850 | -.01980 | .00700 |
| 1.201 | .533 | -.14590 | .02380 | -.00170 | .01940 | 55.00000 | -.10960 | .02490 | .02280 | -.01470 | .01120 |
| 1.202 | 1.055 | -.13270 | .02600 | .00040 | .02910 | 55.00000 | -.10960 | .02490 | .02700 | -.01470 | .01550 |
| 1.201 | 2.123 | -.12630 | .01530 | -.01020 | .02910 | 55.00000 | -.10960 | .02490 | .00580 | -.01470 | -.00580 |
| 1.202 | 3.171 | -.12210 | .01280 | -.01280 | .03880 | 55.00000 | -.10960 | .01980 | .00580 | -.01980 | -.00580 |
| 1.199 | 4.217 | -.12370 | .01280 | -.01280 | .02910 | 55.00000 | -.10960 | .01980 | .01000 | -.01980 | -.00150 |
| 1.198 | 6.304 | -.12330 | .01490 | -.01070 | .01940 | 55.00000 | -.10960 | .01980 | .02700 | -.01980 | .01550 |
| 1.198 | 8.377 | -.12480 | .02340 | -.00220 | .00970 | 55.00000 | -.06920 | .01980 | .02000 | -.01980 | .01550 |
| | GRADIENT | -.00661 | -.00136 | -.00135 | .00270 | .00000 | .00067 | -.00072 | -.00199 | -.00072 | -.00199 |

AMES 118-1-11 OAI45A 01

(C2F0A1) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

RUN NO. 589/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|--------|---------|---------|----------|---------|--------|--------|---------|---------|
| .598 | -6.032 | 5.13170 | .01460 | -.00520 | .00000 | 55.00000 | -.10960 | .02490 | .00430 | -.01470 | .00430 |
| .598 | -1.942 | 5.10640 | .01460 | -.00520 | .00970 | 55.00000 | -.24870 | .02490 | .00430 | -.01470 | .00430 |
| .598 | .025 | 5.07350 | .01750 | -.00810 | .00000 | 55.00000 | -.28460 | .02490 | .01000 | -.01470 | -.00150 |
| .598 | .512 | 4.93180 | .01460 | -.00520 | .00000 | 55.00000 | -.28460 | .02490 | .00430 | -.01470 | .00430 |
| .598 | 1.026 | 5.15810 | .01460 | -.00520 | .00000 | 55.00000 | -.10960 | .02490 | .01000 | -.01470 | .00430 |
| .598 | 2.093 | 5.19360 | .01750 | -.00810 | .00000 | 55.00000 | -.07590 | .02490 | .01000 | -.01470 | .00150 |
| .598 | 3.136 | 5.19660 | .01750 | -.00810 | .00000 | 55.00000 | -.10290 | .02490 | .01000 | -.01470 | .00150 |
| .597 | 4.168 | 5.18000 | .01750 | -.00810 | .00000 | 55.00000 | -.12310 | .02490 | .01000 | -.01470 | .00150 |
| .597 | 6.224 | 5.17810 | .01750 | -.00810 | .00000 | 55.00000 | -.15900 | .02490 | .01000 | -.01470 | .00430 |
| .597 | | 5.16550 | .01710 | -.00770 | .00000 | 55.00000 | -.17690 | .02990 | .00430 | -.01970 | .00430 |
| | GRADIENT | .02157 | .00044 | -.00044 | -.00098 | .00000 | .02540 | .00000 | .00087 | -.00000 | -.00088 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1143

AMES 118-1-11 OAI45A 01

(C2F0A1) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AIRLON = .000 BDFLAP = .000
 SPDBRK = 55.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 582/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AIRLON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-08 |
|------|----------|---------|--------|---------|---------|----------|---------|--------|---------|
| .800 | -6.051 | 5.09980 | .01500 | -.00560 | .00970 | 55.00000 | -.13310 | .01000 | -.00150 |
| .799 | -1.945 | 5.06850 | .01500 | -.00560 | .00970 | 55.00000 | -.13210 | .01000 | -.00150 |
| .798 | -.910 | 5.04500 | .01500 | -.00560 | .00970 | 55.00000 | -.21280 | .01000 | -.00150 |
| .798 | .036 | 4.97530 | .01500 | -.00560 | .00970 | 55.00000 | -.11640 | .01000 | -.00150 |
| .800 | .494 | 5.17890 | .01500 | -.00560 | .00970 | 55.00000 | -.11640 | .01000 | -.00150 |
| .800 | 1.018 | 5.16590 | .01500 | -.00560 | .00970 | 55.00000 | -.11640 | .01000 | -.00150 |
| .799 | 2.084 | 5.15930 | .01500 | -.00560 | .00970 | 55.00000 | -.23970 | .01000 | -.00150 |
| .800 | 3.124 | 5.14480 | .01500 | -.00560 | .00970 | 55.00000 | -.14110 | .01000 | -.00150 |
| .798 | 4.160 | 5.14130 | .01500 | -.00560 | .00970 | 55.00000 | -.23970 | .01000 | -.00150 |
| .797 | 6.239 | 5.13650 | .01500 | -.00560 | .00970 | 55.00000 | -.00559 | .01000 | -.00000 |
| | GRADIENT | .01951 | .00000 | -.00000 | -.00000 | .00000 | | .00000 | |

RUN NO. 567/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AIRLON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-08 |
|------|----------|---------|--------|---------|--------|----------|---------|--------|---------|
| .902 | -6.116 | 4.90780 | .01500 | -.00560 | .01940 | 55.00000 | -.13210 | .01000 | -.00150 |
| .900 | -1.968 | 4.89870 | .01500 | -.00560 | .01940 | 55.00000 | -.10960 | .01000 | -.00150 |
| .900 | -.920 | 4.88910 | .01710 | -.00350 | .01940 | 55.00000 | -.11640 | .01430 | .00270 |
| .899 | .140 | 4.92450 | .01710 | -.00350 | .01940 | 55.00000 | -.12310 | .01430 | .00270 |
| .899 | .628 | 4.91480 | .01710 | -.00350 | .01940 | 55.00000 | -.12310 | .01430 | .00270 |
| .900 | 1.152 | 4.89610 | .01710 | -.00350 | .01940 | 55.00000 | -.13210 | .01430 | .00270 |
| .899 | 2.206 | 4.87560 | .01710 | -.00350 | .01940 | 55.00000 | -.12310 | .01430 | .00270 |
| .899 | 3.257 | 4.85740 | .01710 | -.00350 | .01940 | 55.00000 | -.15000 | .01430 | .00270 |
| .899 | 4.297 | 4.84310 | .01710 | -.00350 | .02910 | 55.00000 | -.11640 | .01430 | .00270 |
| .895 | 6.368 | 4.80780 | .01500 | -.00560 | .01940 | 55.00000 | -.11640 | .01000 | -.00150 |
| | GRADIENT | -.00994 | .00021 | .00021 | .00101 | .00000 | -.00491 | .00043 | .00042 |

RUN NO. 556/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AIRLON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-08 |
|------|----------|---------|---------|---------|--------|----------|---------|---------|---------|
| .950 | -6.140 | 4.97190 | .02210 | -.00430 | .00970 | 55.00000 | -.07590 | .02430 | .00120 |
| .950 | -1.978 | 4.96650 | .02140 | .00070 | .00970 | 55.00000 | -.13210 | .02280 | .01120 |
| .950 | -.928 | 4.95840 | .02140 | .00070 | .00970 | 55.00000 | -.09620 | .02280 | .01120 |
| .950 | .136 | 4.99360 | .02140 | .00070 | .00970 | 55.00000 | -.10290 | .02280 | .01120 |
| .949 | .624 | 4.99620 | .02140 | .00070 | .00970 | 55.00000 | -.10290 | .02280 | .01120 |
| .950 | 1.143 | 4.96320 | .02140 | .00070 | .00970 | 55.00000 | -.10960 | .02280 | .01120 |
| .948 | 2.200 | 4.93800 | .02140 | .00070 | .00970 | 55.00000 | -.11640 | .02280 | .01120 |
| .948 | 3.248 | 4.91080 | .01500 | -.00560 | .00970 | 55.00000 | -.12310 | .01000 | -.00150 |
| .948 | 4.289 | 4.89390 | .01500 | -.00560 | .00970 | 55.00000 | -.12310 | .01000 | -.00150 |
| .946 | 6.363 | 4.85670 | .02030 | -.01100 | .00970 | 55.00000 | -.08940 | .01580 | -.00730 |
| | GRADIENT | -.01325 | -.00111 | -.00110 | .00000 | .00000 | -.00083 | -.00223 | -.00221 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1144

AMES 118-1-11 0A145A 01

(C2FOA1) (08 JUL 77)

REFERENCE DATA

SREF = 2690 0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474 8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 55.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 552/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-OB | AIL-1B | AIL-OB |
|-------|----------|---------|--------|---------|---------|----------|---------|--------|--------|---------|--------|
| 1.101 | -6.116 | 5.14390 | .02210 | -.00430 | .00970 | 55.00000 | -.10960 | .02000 | .02430 | -.00980 | .00120 |
| 1.099 | -1.968 | 5.11660 | .01920 | -.00140 | .00970 | 55.00000 | -.12310 | .02000 | .01850 | -.00980 | .00700 |
| 1.100 | -.927 | 5.09870 | .01920 | -.00140 | .00970 | 55.00000 | -.12310 | .02000 | .01850 | -.00980 | .00700 |
| 1.100 | .129 | 5.06790 | .01920 | -.00140 | .00970 | 55.00000 | -.10960 | .02000 | .01850 | -.00980 | .00700 |
| 1.099 | .641 | 5.08550 | .01920 | -.00140 | .00970 | 55.00000 | -.10960 | .02000 | .01850 | -.00980 | .00700 |
| 1.100 | 1.146 | 5.10780 | .01920 | -.00140 | .00970 | 55.00000 | -.10960 | .02000 | .01850 | -.00980 | .00700 |
| 1.098 | 2.189 | 5.09500 | .02140 | .00070 | .00970 | 55.00000 | -.10960 | .02000 | .02280 | -.00980 | .01120 |
| 1.098 | 3.230 | 5.08230 | .02140 | .00070 | .00970 | 55.00000 | -.11640 | .02000 | .02280 | -.00980 | .00700 |
| 1.098 | 4.266 | 5.07240 | .01920 | -.00140 | .00970 | 55.00000 | -.12310 | .02000 | .01850 | -.00980 | .00700 |
| 1.098 | 6.339 | 5.04060 | .01920 | -.00140 | .00970 | 55.00000 | -.12310 | .02000 | .01850 | -.00980 | .00700 |
| 1.098 | GRADIENT | -.00465 | .00023 | .00022 | -.00171 | .00000 | .00036 | .00000 | .00046 | -.00000 | .00045 |

RUN NO. 538/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-OB | AIL-1B | AIL-OB |
|-------|----------|---------|--------|---------|--------|----------|---------|---------|--------|---------|---------|
| 1.201 | -6.123 | 5.22020 | .01280 | -.01280 | .00000 | 55.00000 | -.08270 | .01980 | .00580 | -.01980 | -.00580 |
| 1.201 | -1.957 | 5.18730 | .01200 | -.00780 | .01940 | 55.00000 | -.10960 | .01980 | .00430 | -.01980 | .00430 |
| 1.199 | -.921 | 5.17650 | .01200 | -.00780 | .01940 | 55.00000 | -.10960 | .01980 | .00430 | -.01980 | .00430 |
| 1.200 | .030 | 5.15900 | .01670 | -.00310 | .01940 | 55.00000 | -.10960 | .02490 | .00850 | -.01470 | .00850 |
| 1.200 | .691 | 5.22490 | .01250 | -.00740 | .01940 | 55.00000 | -.10960 | .02490 | .00850 | -.01470 | .00850 |
| 1.201 | 1.158 | 5.18380 | .01530 | -.01020 | .01940 | 55.00000 | -.11640 | .02490 | .01000 | -.01470 | .00580 |
| 1.201 | 2.191 | 5.15740 | .01750 | -.00810 | .01940 | 55.00000 | -.11640 | .01980 | .00430 | -.01980 | .00430 |
| 1.200 | 3.239 | 5.17240 | .01200 | -.00780 | .01940 | 55.00000 | -.11640 | .01980 | .01850 | -.01980 | .00700 |
| 1.201 | 4.275 | 5.16620 | .01920 | -.00640 | .01940 | 55.00000 | -.11640 | .01980 | .01430 | -.01980 | .00270 |
| 1.201 | 6.353 | 5.15040 | .01700 | -.00850 | .01940 | 55.00000 | -.11640 | .01980 | .01430 | -.01980 | .00270 |
| 1.197 | GRADIENT | -.00313 | .00079 | -.00004 | .00000 | -.00000 | -.00143 | -.00005 | .00160 | -.00005 | -.00004 |

RUN NO. 530/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-OB | AIL-1B | AIL-OB |
|-------|----------|---------|--------|---------|--------|----------|---------|--------|--------|--------|---------|
| 1.297 | -6.081 | 5.09960 | .00830 | -.00320 | .00000 | 55.00000 | -.12310 | .00510 | .01150 | .00510 | -.01150 |
| 1.301 | -1.964 | 5.07600 | .00830 | -.00320 | .00000 | 55.00000 | -.12310 | .00510 | .01150 | .00510 | -.01150 |
| 1.299 | -.920 | 5.06040 | .00830 | -.00320 | .00000 | 55.00000 | -.12310 | .00510 | .01150 | .00510 | -.01150 |
| 1.298 | .151 | 5.09940 | .00830 | -.00320 | .00000 | 55.00000 | -.12310 | .00510 | .01150 | .00510 | -.01150 |
| 1.298 | .627 | 5.07260 | .00830 | -.00320 | .00000 | 55.00000 | -.12310 | .00510 | .01150 | .00510 | -.01150 |
| 1.298 | 1.154 | 5.06760 | .00830 | -.00320 | .00000 | 55.00000 | -.12310 | .00510 | .01150 | .00510 | -.01150 |
| 1.299 | 2.207 | 5.04590 | .00830 | -.00320 | .00000 | 55.00000 | -.12310 | .00510 | .01150 | .00510 | -.01150 |
| 1.299 | 3.261 | 5.03100 | .01040 | -.00110 | .00000 | 55.00000 | -.12310 | .00510 | .01580 | .00510 | -.00730 |
| 1.296 | 4.303 | 5.02460 | .01040 | -.00110 | .00000 | 55.00000 | -.12310 | .00510 | .01580 | .00510 | -.00730 |
| 1.296 | 6.377 | 4.99990 | .00830 | -.00320 | .00000 | 55.00000 | -.12310 | .00510 | .01150 | .00510 | -.01150 |
| 1.294 | GRADIENT | -.00925 | .00037 | -.00037 | .00000 | -.00000 | -.00000 | .00000 | .00075 | .00000 | .00073 |

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OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(C2F0A1) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 518/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | AIL-1B | ELV-0B | AIL-0B |
|-------|----------|---------|---------|---------|--------|----------|---------|---------|---------|--------|--------|
| 1.403 | -6.119 | 5.07350 | .02570 | .00920 | .00970 | 55.00000 | -.12310 | .01000 | .00010 | .04130 | .01820 |
| 1.408 | -1.976 | 5.04910 | .02570 | .00920 | .00000 | 55.00000 | -.14110 | .01000 | .00010 | .04130 | .01820 |
| 1.406 | -.924 | 5.03870 | .02570 | .00920 | .00000 | 55.00000 | -.14110 | .01000 | .00010 | .04130 | .01820 |
| 1.406 | .150 | 5.07640 | .02310 | .00660 | .00000 | 55.00000 | -.14110 | .00500 | -.00500 | .04130 | .01820 |
| 1.404 | .629 | 5.06710 | .02310 | .00660 | .00000 | 55.00000 | -.15000 | .00500 | -.00500 | .04130 | .01820 |
| 1.403 | 1.153 | 5.05200 | .02310 | .00660 | .00000 | 55.00000 | -.15000 | .00500 | -.00500 | .04130 | .01820 |
| 1.404 | 2.214 | 5.03070 | .02310 | .00660 | .00000 | 55.00000 | -.14110 | .00500 | -.00500 | .04130 | .01820 |
| 1.402 | 3.267 | 5.01530 | .02310 | .00660 | .00000 | 55.00000 | -.15000 | .00500 | -.00500 | .04130 | .01820 |
| 1.402 | 4.313 | 5.00310 | .02310 | .00660 | .00000 | 55.00000 | -.14110 | .00500 | -.00500 | .04130 | .01820 |
| 1.400 | 6.402 | 4.97780 | .02310 | .00660 | .00000 | 55.00000 | -.15000 | .00500 | -.00500 | .04130 | .01820 |
| | GRADIENT | -.00823 | -.00043 | -.00043 | .00000 | .00000 | -.00050 | -.00083 | -.00084 | .00000 | .00000 |

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 55.000 RUDDER = .000
 RN/L = 5.000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 591/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | AIL-1B | ELV-0B | AIL-0B |
|------|----------|----------|--------|---------|--------|----------|---------|--------|---------|--------|---------|
| .598 | -6.045 | 10.11500 | .03370 | -.01160 | .00970 | 55.00000 | .05890 | .04470 | -.03450 | .02280 | .01120 |
| .597 | -1.990 | 10.13400 | .03090 | -.00880 | .00000 | 55.00000 | -.06240 | .04470 | -.03450 | .01700 | .01700 |
| .597 | -.972 | 10.13400 | .03620 | -.01410 | .00000 | 55.00000 | -.12310 | .04970 | -.03950 | .02280 | .01120 |
| .597 | .059 | 10.14100 | .03620 | -.01410 | .00000 | 55.00000 | -.12310 | .04970 | -.03950 | .02280 | .01120 |
| .597 | .557 | 10.14100 | .03620 | -.01410 | .00000 | 55.00000 | -.13210 | .04970 | -.03950 | .02280 | .01120 |
| .597 | 1.059 | 10.12700 | .03870 | -.01660 | .00000 | 55.00000 | -.14110 | .05460 | -.04440 | .02280 | .01120 |
| .598 | 2.094 | 10.13900 | .03870 | -.01660 | .00000 | 55.00000 | -.16800 | .05460 | -.04440 | .02280 | .01120 |
| .597 | 3.122 | 10.14600 | .03870 | -.01660 | .00000 | 55.00000 | -.18590 | .05460 | -.04440 | .02280 | .01120 |
| .596 | 4.163 | 10.15800 | .04120 | -.01910 | .00000 | 55.00000 | -.24870 | .05960 | -.04940 | .02280 | .01120 |
| .598 | 6.231 | 10.16200 | .04120 | -.01910 | .00000 | 55.00000 | -.25770 | .05960 | -.04940 | .02280 | .01120 |
| .598 | 8.292 | 10.15000 | .04120 | -.01910 | .00000 | 55.00000 | -.14310 | .05960 | -.04940 | .02280 | .01120 |
| | GRADIENT | .00325 | .00134 | -.00134 | .00000 | .00000 | -.02552 | .00210 | -.00210 | .00059 | -.00059 |

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 55.000 RUDDER = .000
 RN/L = 5.000

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OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(C2F0A2) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = .000
AILRON = .000
SPOBRK = .000
RUDDER = .000
ELEVON = .000
BDFLAP = .000
RUDDER = .000

RUN NO. 576/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|---------|----------|--------|---------|---------|----------|---------|--------|--------|---------|---------|
| .799 | -6.138 | 10.24100 | .01500 | -.00560 | .00970 | 55.00000 | -.12310 | .02000 | .01000 | -.00980 | -.00150 |
| .798 | -1.992 | 10.24300 | .01290 | -.00780 | .00970 | 55.00000 | -.08940 | .02000 | .00580 | -.00980 | -.00580 |
| .797 | -.938 | 10.24500 | .01290 | -.00780 | .00970 | 55.00000 | -.09620 | .02000 | .00580 | -.00980 | -.00580 |
| .797 | .130 | 10.24000 | .01500 | -.00560 | .00970 | 55.00000 | -.10290 | .02000 | .01000 | -.00980 | -.00150 |
| .799 | .650 | 10.22900 | .01290 | -.00780 | .00970 | 55.00000 | -.11640 | .02000 | .00580 | -.00980 | -.00580 |
| .798 | 1.186 | 10.19500 | .01750 | -.00810 | .00970 | 55.00000 | -.12310 | .02490 | .01000 | -.01470 | -.00150 |
| .799 | 2.240 | 10.17600 | .01500 | -.00560 | .00970 | 55.00000 | -.13210 | .02000 | .01000 | -.00980 | -.00150 |
| .799 | 3.295 | 10.15700 | .01500 | -.00560 | .00970 | 55.00000 | -.18590 | .02000 | .01000 | -.00980 | -.00150 |
| .797 | 4.336 | 10.12600 | .01500 | -.00560 | .00970 | 55.00000 | -.19490 | .02000 | .01000 | -.00980 | -.00150 |
| .797 | 6.396 | 10.07500 | .01500 | -.00560 | .00970 | 55.00000 | -.25770 | .02000 | .01430 | -.00980 | -.00270 |
| .797 | 8.425 | 10.03900 | .01710 | -.00350 | .00970 | 55.00000 | -.01286 | .02000 | .00075 | -.00001 | .00077 |
| .799 | -.02030 | -.00038 | .00038 | .00039 | -.00067 | .00000 | | | | | |

GRADIENT

RUN NO. 573/ 0 RN/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|--------|----------|---------|---------|---------|----------|---------|--------|---------|---------|---------|
| .900 | -6.119 | 10.07700 | .01710 | -.00350 | .00970 | 55.00000 | -.10290 | .02000 | .01430 | -.00980 | -.00270 |
| .900 | -2.024 | 10.10300 | .01710 | -.00350 | .00970 | 55.00000 | -.07590 | .02000 | .01430 | -.00980 | -.00270 |
| .900 | -.991 | 10.10700 | .01710 | -.00350 | .01940 | 55.00000 | -.15900 | .02000 | .01000 | -.00980 | -.00150 |
| .900 | .053 | 10.11600 | .01500 | -.00560 | .00970 | 55.00000 | -.06920 | .02000 | .01000 | -.00980 | -.00150 |
| .899 | .557 | 10.11100 | .01500 | -.00560 | .00970 | 55.00000 | -.12310 | .02000 | .01000 | -.00980 | -.00150 |
| .900 | 1.065 | 10.09700 | .01500 | -.00560 | .00970 | 55.00000 | -.13210 | .02000 | .01000 | -.00980 | -.00150 |
| .899 | 2.117 | 10.11800 | .01500 | -.00560 | .00970 | 55.00000 | -.06920 | .02000 | .01000 | -.00980 | -.00150 |
| .899 | 3.159 | 10.12700 | .01500 | -.00560 | .00970 | 55.00000 | -.12310 | .02000 | .01430 | -.00980 | -.00270 |
| .898 | 4.216 | 10.15300 | .01710 | -.00350 | .00970 | 55.00000 | -.14110 | .02000 | .01850 | -.00980 | -.00700 |
| .899 | 6.301 | 10.14600 | .01920 | -.00140 | .01940 | 55.00000 | -.15900 | .02490 | .01000 | -.01470 | -.00150 |
| .899 | 8.380 | 10.13800 | .01750 | -.00810 | .01940 | 55.00000 | -.00100 | .00000 | -.00026 | -.00000 | -.00026 |
| .899 | .00667 | .00667 | -.00013 | -.00013 | -.00064 | .00000 | | | | | |

GRADIENT

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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(C2F0A2) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA =
 AILRON =
 SPDBRK =
 RN/L =
 ELEVON = 10.000
 BOFLAP = .000
 RUDDER = 55.000
 RUDDER = 5.000

RUN NO. 554/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|----------|----------|--------|---------|---------|----------|---------|--------|--------|---------|---------|
| .950 | -6.149 | 10.11300 | .01920 | -.00140 | .01940 | 55.00000 | .00500 | .02000 | .01850 | -.00980 | .00700 |
| .950 | -2.044 | 10.16800 | .02210 | -.00430 | .00970 | 55.00000 | -.08940 | .02000 | .02430 | -.00980 | .00120 |
| .950 | -1.007 | 10.17000 | .02210 | -.00430 | .00970 | 55.00000 | -.10290 | .02000 | .02430 | -.00980 | .00120 |
| .949 | .040 | 10.17700 | .01920 | -.00140 | .01940 | 55.00000 | -.08940 | .02000 | .01850 | -.00980 | .00700 |
| .948 | .547 | 10.19600 | .01920 | -.00140 | .00970 | 55.00000 | -.08270 | .02000 | .01850 | -.00980 | .00700 |
| .949 | 1.059 | 10.18000 | .01920 | -.00140 | .00970 | 55.00000 | -.07590 | .02000 | .02430 | -.00980 | .00120 |
| .949 | 2.115 | 10.19800 | .02210 | -.00430 | .00970 | 55.00000 | -.08270 | .02000 | .02430 | -.00980 | .00120 |
| .948 | 3.161 | 10.21300 | .02210 | -.00430 | .00970 | 55.00000 | -.09620 | .02000 | .02430 | -.00980 | .00120 |
| .948 | 4.219 | 10.23100 | .02210 | -.00430 | .00970 | 55.00000 | -.10960 | .02000 | .02430 | -.00980 | .00120 |
| .948 | 6.313 | 10.23300 | .02210 | -.00430 | .00970 | 55.00000 | -.12310 | .02000 | .02430 | -.00980 | .00120 |
| .949 | 8.392 | 10.21500 | .02210 | -.00430 | .01940 | 55.00000 | -.00114 | .00000 | .00026 | -.00000 | -.00026 |
| | GRADIENT | .00999 | .00013 | -.00013 | -.00029 | .00000 | | | | | |

RUN NO. 547/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|----------|---------|---------|---------|----------|---------|---------|---------|---------|---------|
| 1.202 | -6.144 | 9.94370 | .02250 | -.00890 | .02310 | 55.00000 | -.10960 | .02490 | .02000 | -.01470 | .00300 |
| 1.203 | -2.044 | 9.95590 | .02490 | -.01130 | .00970 | 55.00000 | -.10960 | .02990 | .02000 | -.01970 | .00300 |
| 1.199 | -1.008 | 9.96200 | .02250 | -.00890 | .00000 | 55.00000 | -.11640 | .02490 | .02000 | -.01470 | .00300 |
| 1.199 | .036 | 10.05700 | .02250 | -.00890 | .00970 | 55.00000 | -.11640 | .02990 | .02000 | -.01970 | .00300 |
| 1.200 | .541 | 10.05400 | .02490 | -.01130 | .00000 | 55.00000 | -.11640 | .02990 | .02000 | -.01970 | .00300 |
| 1.200 | 1.063 | 10.05600 | .02490 | -.01130 | .00000 | 55.00000 | -.11640 | .02990 | .02000 | -.01970 | .00300 |
| 1.199 | 2.122 | 10.07500 | .02030 | -.01100 | .00000 | 55.00000 | -.11640 | .02490 | .02000 | -.01470 | .00300 |
| 1.197 | 3.170 | 10.08000 | .02250 | -.00890 | .00000 | 55.00000 | -.12310 | .02990 | .02000 | -.01970 | .00300 |
| 1.198 | 4.227 | 10.09700 | .02490 | -.01130 | .00000 | 55.00000 | -.12310 | .02990 | .02430 | -.01970 | .00120 |
| 1.197 | 6.316 | 10.08900 | .02710 | -.00920 | .00970 | 55.00000 | -.12310 | .02990 | .02000 | -.01470 | .00300 |
| 1.197 | 8.389 | 10.07800 | .02250 | -.00890 | .00970 | 55.00000 | -.11640 | .02490 | .02000 | -.01470 | .00300 |
| 1.197 | GRADIENT | .02273 | -.00010 | -.00005 | -.00142 | .00000 | -.00184 | -.00004 | -.00015 | .00004 | -.00015 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(C2F0A2) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = .000
AILRON = .000
SPDBRK = .000
RUDDER = .000
ELEVON = .000
BOFLAP = .000
ELVON = .000
RN/L = 5.00

RUN NO. 526/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|----------|---------|---------|---------|----------|---------|---------|--------|---------|---------|
| 1.294 | -6.180 | 10.37800 | .01330 | -.00310 | .00970 | 55.00000 | -.12310 | .01510 | .01150 | .00520 | -.01150 |
| 1.300 | -2.018 | 10.41500 | .01330 | -.00310 | .00970 | 55.00000 | -.13210 | .01510 | .01150 | .00520 | -.01150 |
| 1.300 | -.940 | 10.42900 | .01330 | -.00310 | .00970 | 55.00000 | -.14110 | .01510 | .01150 | .00520 | -.01150 |
| 1.298 | .156 | 10.41700 | .01330 | -.00310 | .00970 | 55.00000 | -.14110 | .01510 | .01150 | .00520 | -.01150 |
| 1.296 | .684 | 10.39800 | .01330 | -.00310 | .00970 | 55.00000 | -.14110 | .01510 | .01150 | .00520 | -.01150 |
| 1.297 | 1.235 | 10.36800 | .01080 | -.00570 | .00970 | 55.00000 | -.15000 | .01000 | .01150 | .00010 | -.01150 |
| 1.296 | 2.303 | 10.32100 | .01080 | -.00570 | .00970 | 55.00000 | -.15900 | .01000 | .01150 | .00010 | -.01150 |
| 1.297 | 3.367 | 10.28500 | .01080 | -.00570 | .00970 | 55.00000 | -.16800 | .01000 | .01150 | .00010 | -.01150 |
| 1.297 | 4.410 | 10.24500 | .01080 | -.00570 | .00970 | 55.00000 | -.16800 | .01000 | .01150 | .00010 | -.01150 |
| 1.294 | 6.476 | 10.18500 | .01080 | -.00570 | .00970 | 55.00000 | -.16920 | .01000 | .01150 | .00010 | -.01150 |
| 1.294 | 8.495 | 10.13800 | .01890 | .00240 | .00970 | 55.00000 | .03200 | .00500 | .03280 | -.00500 | .00970 |
| 1.292 | GRADIENT | -.03011 | -.00052 | -.00054 | -.00168 | .00000 | -.00511 | -.00105 | .00000 | -.00105 | .00000 |

RUN NO. 525/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|----------|---------|---------|--------|----------|---------|--------|---------|--------|---------|
| 1.401 | -6.201 | 10.31300 | .01000 | -.00070 | .01940 | 55.00000 | -.12310 | .01000 | .01000 | .00010 | -.00150 |
| 1.406 | -2.021 | 10.35100 | .01260 | .00190 | .00970 | 55.00000 | -.15000 | .01510 | .01000 | .00520 | -.00150 |
| 1.406 | -.942 | 10.35500 | .01540 | -.00100 | .00970 | 55.00000 | -.15900 | .01510 | .01580 | .00520 | -.00730 |
| 1.406 | .152 | 10.34500 | .01260 | .00190 | .00970 | 55.00000 | -.15900 | .01510 | .01000 | .00520 | -.00150 |
| 1.405 | .683 | 10.32600 | .01540 | -.00100 | .00970 | 55.00000 | -.16800 | .01510 | .01580 | .00520 | -.00730 |
| 1.403 | 1.232 | 10.29600 | .01260 | .00190 | .01940 | 55.00000 | -.16800 | .01510 | .01000 | .00520 | -.00150 |
| 1.402 | 2.299 | 10.25800 | .01040 | -.00030 | .01940 | 55.00000 | -.16800 | .01510 | .00580 | .00520 | -.00580 |
| 1.402 | 3.369 | 10.22700 | .01040 | -.00030 | .01940 | 55.00000 | -.16800 | .01510 | .00580 | .00520 | -.00580 |
| 1.402 | 4.416 | 10.18400 | .01330 | -.00310 | .00970 | 55.00000 | -.17690 | .01510 | .01150 | .00520 | -.01150 |
| 1.400 | 6.494 | 10.11900 | .01040 | -.00030 | .00970 | 55.00000 | -.19490 | .01510 | .00580 | .00520 | -.00580 |
| 1.400 | 8.517 | 10.08200 | .01260 | .00190 | .00970 | 55.00000 | -.20390 | .01510 | .01000 | .00520 | -.00150 |
| 1.398 | GRADIENT | -.02835 | -.00038 | -.00050 | .00103 | .00000 | -.00350 | .00000 | -.00074 | .00000 | -.00099 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1149

AMES 118-1-11 OAI45A 01

(C2F0A3) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

ALPHA =
AILRON =
SPDBRK =
RN/L =

15.000 ELEVON = .000
.000 BDFLAP = .000
55.000 RUDDER = .000

PARAMETRIC DATA

RUN NO. 592/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|----------|--------|---------|---------|----------|---------|--------|--------|---------|--------|
| .598 | -6.090 | 15.12900 | .01640 | .00150 | .00000 | 55.00000 | .01170 | .02000 | .01280 | -.00980 | .01280 |
| .595 | -1.994 | 15.17900 | .01640 | .00150 | .00970 | 55.00000 | -.22180 | .02000 | .01280 | -.00980 | .01280 |
| .598 | -.957 | 15.18700 | .01640 | .00150 | .00000 | 55.00000 | -.07590 | .02000 | .01280 | -.00980 | .01280 |
| .598 | .090 | 15.19200 | .01640 | .00150 | .00000 | 55.00000 | -.09620 | .02000 | .01280 | -.00980 | .01280 |
| .598 | .598 | 15.19300 | .02100 | .00110 | .00000 | 55.00000 | -.10290 | .02490 | .01700 | -.01470 | .01700 |
| .598 | 1.108 | 15.18300 | .01880 | -.00100 | .00000 | 55.00000 | -.12310 | .02490 | .01280 | -.01470 | .01280 |
| .598 | 2.134 | 15.16100 | .02100 | .00110 | .00000 | 55.00000 | -.15000 | .02490 | .01700 | -.01470 | .01700 |
| .598 | 3.171 | 15.15800 | .02130 | -.00350 | .00000 | 55.00000 | -.18590 | .02990 | .01280 | -.01970 | .01280 |
| .598 | 4.216 | 15.14900 | .02340 | -.00130 | .00000 | 55.00000 | -.25770 | .02990 | .01700 | -.01970 | .01700 |
| .598 | 6.276 | 15.13000 | .02590 | -.00380 | .00000 | 55.00000 | -.15900 | .03480 | .01700 | -.02460 | .01700 |
| .598 | 8.344 | 15.08500 | .02800 | -.00170 | .00000 | 55.00000 | .16680 | .03480 | .02130 | -.02460 | .02130 |
| | GRADIENT | -.00643 | .00119 | -.00066 | -.00098 | .00000 | -.01390 | .00186 | .00053 | -.00186 | .00053 |

RUN NO. 574/ 0 RN/L = 4.91 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|----------|--------|---------|---------|----------|---------|---------|--------|---------|---------|
| .902 | -6.159 | 15.09800 | .01750 | -.00810 | .00970 | 55.00000 | -.18590 | .02490 | .01000 | -.01470 | -.00150 |
| .899 | -2.028 | 15.15100 | .01750 | -.00810 | .00970 | 55.00000 | -.25770 | .02490 | .01000 | -.01470 | -.00150 |
| .900 | -.982 | 15.15900 | .02030 | -.01100 | .01940 | 55.00000 | -.10290 | .02490 | .01580 | -.01470 | -.00730 |
| .900 | .071 | 15.16500 | .02030 | -.01100 | .01940 | 55.00000 | -.13210 | .02490 | .01580 | -.01470 | -.00730 |
| .900 | .586 | 15.16200 | .01500 | -.00560 | .01940 | 55.00000 | -.15900 | .02000 | .01000 | -.00980 | -.00150 |
| .900 | 1.102 | 15.15700 | .01790 | -.00850 | .00970 | 55.00000 | -.14110 | .02000 | .01580 | -.00980 | -.00730 |
| .900 | 2.140 | 15.14300 | .02030 | -.01100 | .01940 | 55.00000 | -.17690 | .02490 | .01580 | -.01470 | -.00730 |
| .899 | 3.188 | 15.14100 | .01790 | -.00850 | .01940 | 55.00000 | -.16800 | .02000 | .01580 | -.00980 | -.00730 |
| .900 | 4.242 | 15.14500 | .02030 | -.01100 | .00970 | 55.00000 | -.15900 | .02490 | .01580 | -.01470 | -.00730 |
| .899 | 6.326 | 15.12600 | .01790 | -.00850 | .01940 | 55.00000 | -.15000 | .02000 | .01580 | -.00980 | -.00730 |
| .899 | 8.412 | 15.08700 | .01790 | -.00850 | .01940 | 55.00000 | -.19490 | .02000 | .01580 | -.00980 | -.00730 |
| | GRADIENT | -.00273 | .00019 | -.00019 | -.00006 | -.00000 | .00408 | -.00028 | .00066 | .00028 | -.00066 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1150

AMES 118-1-11 OAI45A 01

(C2FOA3) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6900 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 15.000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 55.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 555/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|----------|--------|---------|--------|----------|---------|--------|---------|--------|
| .952 | -6.184 | 15.18000 | .01920 | -.00140 | .01940 | 55.00000 | -.23080 | .01850 | -.00980 | .00700 |
| .951 | -2.046 | 15.22200 | .02210 | -.00430 | .00970 | 55.00000 | -.08270 | .02430 | -.00980 | .00120 |
| .948 | -.996 | 15.22200 | .02210 | -.00430 | .00970 | 55.00000 | -.10960 | .02430 | -.00980 | .00120 |
| .950 | .059 | 15.24200 | .02210 | -.00430 | .00970 | 55.00000 | -.11640 | .02430 | -.00980 | .00120 |
| .947 | .575 | 15.23700 | .02210 | -.00430 | .00970 | 55.00000 | -.11640 | .02430 | -.00980 | .00120 |
| .948 | 1.094 | 15.23000 | .02210 | -.00430 | .00970 | 55.00000 | -.12310 | .02430 | -.00980 | .00120 |
| .949 | 2.134 | 15.21900 | .02210 | -.00430 | .00970 | 55.00000 | -.12310 | .02430 | -.00980 | .00120 |
| .947 | 3.182 | 15.20800 | .02210 | -.00430 | .00970 | 55.00000 | -.12310 | .02430 | -.00980 | .00120 |
| .948 | 4.237 | 15.20900 | .02210 | -.00430 | .00970 | 55.00000 | -.10960 | .02430 | -.00980 | .00120 |
| .947 | 6.325 | 15.18900 | .02210 | -.00430 | .00970 | 55.00000 | -.11640 | .02430 | -.00980 | .00120 |
| .948 | 8.412 | 15.15300 | .02210 | -.00430 | .00970 | 55.00000 | -.11640 | .02430 | -.00980 | .00120 |
| | GRADIENT | -.00327 | .00000 | -.00000 | .00000 | .00000 | -.00521 | .00000 | -.00000 | .00000 |

RUN NO. 546/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|----------|--------|---------|--------|----------|---------|--------|---------|---------|
| 1.201 | -6.184 | 15.26600 | .02250 | -.00890 | .00970 | 55.00000 | -.10290 | .02000 | -.01470 | -.00300 |
| 1.201 | -2.055 | 15.26300 | .02490 | -.01130 | .00000 | 55.00000 | -.11640 | .02000 | -.01970 | -.00300 |
| 1.199 | -1.005 | 15.27500 | .02490 | -.01130 | .00000 | 55.00000 | -.11640 | .02000 | -.01970 | -.00300 |
| 1.200 | .050 | 15.00500 | .02490 | -.01130 | .00000 | 55.00000 | -.12310 | .02000 | -.01970 | -.00300 |
| 1.200 | .569 | 15.01000 | .02490 | -.01130 | .00000 | 55.00000 | -.12310 | .02000 | -.01970 | -.00300 |
| 1.200 | 1.096 | 15.00400 | .02490 | -.01130 | .00000 | 55.00000 | -.12310 | .02000 | -.01970 | -.00300 |
| 1.200 | 2.141 | 14.97900 | .02710 | -.00920 | .00000 | 55.00000 | -.10960 | .02430 | -.01970 | .00120 |
| 1.200 | 3.186 | 14.97700 | .02710 | -.00920 | .00000 | 55.00000 | -.09620 | .02430 | -.01970 | .00120 |
| 1.199 | 4.240 | 14.97900 | .02710 | -.00920 | .00000 | 55.00000 | -.08940 | .02430 | -.01970 | .00120 |
| 1.198 | 6.333 | 14.96900 | .03420 | -.00780 | .00000 | 55.00000 | -.09620 | .04550 | -.01970 | .00400 |
| 1.198 | 8.412 | 14.93100 | .03770 | .00140 | .00000 | 55.00000 | -.09620 | .04550 | -.01970 | .02250 |
| 1.198 | GRADIENT | -.04898 | .00046 | .00044 | .00000 | .00000 | .00262 | .00090 | -.00000 | .00088 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1151

AMES 11B-1-1; OAI45A 01

(C2F0A3) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

ALPHA =
 AILRON =
 SPOBRK =
 RN/L =

15.000 ELEVON = .000
 .000 BDFLAP = .000
 55.000 RUDDER = .000
 5.000

PARAMETRIC DATA

RUN NO. 527/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|-------|--------|----------|---------|---------|--------|----------|---------|---------|--------|--------|---------|
| 1.293 | -5.212 | 15.21000 | .01080 | -.00570 | .00970 | 55.00000 | -.12310 | .01000 | .01150 | .00010 | -.01150 |
| 1.296 | -2.058 | 15.28800 | .01080 | -.00570 | .00000 | 55.00000 | -.12310 | .01000 | .01150 | .00010 | -.01150 |
| 1.297 | -1.003 | 15.29900 | .01080 | -.00570 | .00000 | 55.00000 | -.12310 | .01000 | .01150 | .00010 | -.01150 |
| 1.296 | .066 | 15.30300 | .01080 | -.00570 | .00000 | 55.00000 | -.12310 | .01000 | .01150 | .00010 | -.01150 |
| 1.296 | .578 | 15.31300 | .00830 | -.00320 | .00000 | 55.00000 | -.12310 | .00510 | .01150 | .00510 | -.01150 |
| 1.296 | 1.106 | 15.30200 | .00830 | -.00320 | .00000 | 55.00000 | -.12310 | .00510 | .01150 | .00510 | -.01150 |
| 1.295 | 2.155 | 15.27300 | .00830 | -.00570 | .00000 | 55.00000 | -.12310 | .01000 | .01150 | .00010 | -.01150 |
| 1.295 | 3.205 | 15.26600 | .01080 | -.00320 | .00000 | 55.00000 | -.12310 | .00510 | .01150 | .00510 | -.01150 |
| 1.295 | 4.272 | 15.26600 | .00830 | -.00320 | .00970 | 55.00000 | -.12310 | .00510 | .01150 | .00510 | -.01150 |
| 1.293 | 6.366 | 15.25300 | .00830 | -.00320 | .00970 | 55.00000 | -.12310 | .00510 | .01580 | .00510 | -.00730 |
| 1.293 | 8.457 | 15.20500 | .01040 | -.00110 | .00970 | 55.00000 | -.12310 | .00510 | .00000 | .00063 | .00000 |
| 1.294 | | -.00585 | -.00032 | .00032 | .00000 | .00000 | .00000 | -.00062 | | | |

GRADIENT

RUN NO. 524/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|-------|--------|----------|---------|---------|---------|----------|---------|---------|--------|---------|---------|
| 1.396 | -6.145 | 15.41900 | .01040 | -.00530 | .00970 | 55.00000 | -.11640 | .01500 | .00580 | -.00480 | -.00580 |
| 1.399 | -1.957 | 15.35200 | .01040 | -.00530 | .00970 | 55.00000 | -.13210 | .01500 | .00580 | -.00480 | -.00580 |
| 1.398 | -.875 | 15.35400 | .01040 | -.00530 | .00970 | 55.00000 | -.14110 | .01500 | .00580 | -.00480 | -.00580 |
| 1.398 | .201 | 15.34400 | .01040 | -.00530 | .00970 | 55.00000 | -.14110 | .01500 | .00580 | -.00480 | -.00580 |
| 1.397 | .722 | 15.33200 | .01040 | -.00280 | .00970 | 55.00000 | -.14110 | .01000 | .00580 | .00010 | -.00580 |
| 1.396 | 1.267 | 15.27500 | .00790 | -.00530 | .00970 | 55.00000 | -.15000 | .01500 | .00580 | -.00480 | -.00580 |
| 1.396 | 2.347 | 15.31700 | .01040 | -.00530 | .00970 | 55.00000 | -.15900 | .01500 | .00580 | -.00480 | -.00580 |
| 1.396 | 3.413 | 15.23800 | .01040 | -.00530 | .00000 | 55.00000 | -.16800 | .01000 | .01000 | .00010 | -.00150 |
| 1.396 | 4.461 | 15.19000 | .01000 | -.00070 | .00000 | 55.00000 | -.18590 | .01000 | .01000 | .00010 | -.00150 |
| 1.393 | 6.552 | 15.12500 | .01000 | -.00070 | .00000 | 55.00000 | -.19490 | .01510 | .01850 | .00520 | .00700 |
| 1.394 | 8.566 | 15.07500 | .01680 | .00610 | -.00164 | -.00000 | -.00571 | -.00052 | .00042 | .00050 | .00043 |
| | | -.02655 | -.00005 | .00047 | | | | | | | |

GRADIENT

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1152

AMES 118-1-11 0A145A 01

(C2F0A4) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 BETA = .000
 ELEVON = .000 AILRON = .000
 BOFLAP = .000 SPDBRK = 55.000
 RN/L = 5.000

RUN NO. 593/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | ELV-IB | AIL-IB | ELV-OB | AIL-OB |
|------|----------|---------|---------|--------|---------|---------|----------|--------|---------|---------|---------|
| .598 | -14.970 | -.04960 | -.01050 | .01710 | -.00770 | .00000 | 55.00000 | .02990 | -.01970 | .00430 | .00430 |
| .598 | -10.771 | -.04920 | .00640 | .01710 | -.00770 | .00000 | 55.00000 | .02990 | -.01970 | .00430 | .00430 |
| .598 | -4.924 | -.04900 | .00250 | .01990 | -.01060 | .00000 | 55.00000 | .02990 | -.01970 | .01000 | .01000 |
| .598 | -2.442 | -.05040 | .00060 | .01990 | -.01060 | .00000 | 55.00000 | .02990 | -.01970 | .01000 | .01000 |
| .598 | -.123 | -.05140 | -.00120 | .02450 | -.01090 | .00970 | 55.00000 | .03480 | -.02460 | .01430 | .01430 |
| .598 | 2.479 | -.05180 | -.00320 | .02490 | -.01550 | .00000 | 55.00000 | .03980 | -.02960 | .01000 | .01000 |
| .598 | 4.996 | -.05280 | -.00510 | .02740 | -.01800 | .00000 | 55.00000 | .04470 | -.03450 | .01000 | .01000 |
| .598 | 10.051 | -.05440 | -.00950 | .03200 | -.01840 | .00000 | 55.00000 | .04970 | -.03950 | .01430 | .01430 |
| .598 | 15.022 | -.05690 | -.01420 | .01960 | -.00600 | .00970 | 55.00000 | .02490 | -.01470 | .01430 | .01430 |
| .598 | 18.116 | -.05850 | -.01710 | .01750 | -.00810 | .00970 | 55.00000 | .02490 | -.01470 | .01000 | .01000 |
| .598 | 22.658 | -.05890 | -.02100 | .02210 | -.00850 | .00000 | 55.00000 | .02990 | -.01970 | .01430 | .01430 |
| .598 | GRADIENT | -.00036 | -.00077 | .00080 | -.00080 | -.00002 | .00000 | .00160 | -.00160 | -.00001 | -.00001 |

RUN NO. 577/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | ELV-IB | AIL-IB | ELV-OB | AIL-OB |
|------|----------|---------|---------|---------|---------|--------|----------|---------|---------|--------|--------|
| .798 | -14.940 | -.01070 | .09230 | .01710 | -.00350 | .00000 | 55.00000 | .02000 | -.00980 | .01430 | .01430 |
| .799 | -10.709 | -.00860 | .08680 | .01710 | -.00350 | .00970 | 55.00000 | .02000 | -.00980 | .01430 | .01430 |
| .799 | -4.961 | -.00690 | .08090 | .01710 | -.00350 | .00000 | 55.00000 | .02000 | -.00980 | .01430 | .01430 |
| .799 | -2.459 | -.00580 | .07890 | .01710 | -.00350 | .00000 | 55.00000 | .02000 | -.00980 | .01430 | .01430 |
| .800 | -.103 | -.00450 | .07680 | .01710 | -.00350 | .00970 | 55.00000 | .02000 | -.00980 | .01430 | .01430 |
| .800 | 2.505 | -.00590 | .07460 | .01710 | -.00350 | .00000 | 55.00000 | .02000 | -.00980 | .01430 | .01430 |
| .799 | 4.996 | -.00610 | .07160 | .01710 | -.00350 | .00970 | 55.00000 | .02000 | -.00980 | .01430 | .01430 |
| .799 | 10.027 | -.00720 | .06480 | .01710 | -.00350 | .00000 | 55.00000 | .02000 | -.00980 | .01430 | .01430 |
| .800 | 14.996 | -.00650 | .05890 | .01710 | -.00350 | .00970 | 55.00000 | .02000 | -.00980 | .01430 | .01430 |
| .799 | 18.107 | -.00590 | .05570 | .01710 | -.00350 | .00000 | 55.00000 | .02000 | -.00980 | .01430 | .01430 |
| .799 | 22.818 | -.00520 | .05110 | .01710 | -.00350 | .00970 | 55.00000 | .02000 | -.00980 | .01430 | .01430 |
| .799 | GRADIENT | .00006 | -.00092 | -.00000 | -.00000 | .00077 | -.00000 | -.00000 | -.00000 | .00000 | .00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1153

AMES 118-1-11 OAI45A 01

(C2F044) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 BETA = .000
ELEVON = .000 AILRON = .000
BOFLAP = .000 SPDBRK = .000
RN/L = 5.000

RUN NO. 571/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | ELV-1B | AIL-1B | AIL-0B |
|------|----------|---------|---------|---------|---------|---------|----------|--------|---------|--------|
| .900 | -14.970 | -1.1390 | .02120 | .01920 | -.00140 | .01940 | 55.00000 | .02000 | -.00980 | .00700 |
| .901 | -10.754 | -.10940 | .01520 | .01920 | -.00140 | .01940 | 55.00000 | .02000 | -.00980 | .00700 |
| .901 | -4.947 | -1.1030 | .00870 | .01920 | -.00140 | .00970 | 55.00000 | .02000 | -.00980 | .00700 |
| .900 | -2.418 | -1.1260 | .00620 | .01920 | -.00140 | .00970 | 55.00000 | .02000 | -.00980 | .00700 |
| .901 | -.089 | -1.0880 | .00420 | .01920 | -.00140 | .00970 | 55.00000 | .02000 | -.00980 | .00700 |
| .899 | 2.513 | -1.1180 | .00070 | .01920 | -.00140 | .00000 | 55.00000 | .02000 | -.00980 | .00700 |
| .900 | 5.014 | -1.1050 | -.00310 | .01920 | -.00140 | .00970 | 55.00000 | .02000 | -.00980 | .00700 |
| .900 | 10.011 | -1.1440 | -.01020 | .01920 | -.00140 | .00970 | 55.00000 | .02000 | -.00980 | .00700 |
| .900 | 15.014 | -1.1780 | -.01640 | .01920 | -.00140 | .00970 | 55.00000 | .02000 | -.00980 | .00700 |
| .899 | 18.143 | -1.2110 | -.02020 | .01920 | -.00140 | .00970 | 55.00000 | .02000 | -.00980 | .00700 |
| .900 | 19.608 | -1.1950 | -.02170 | .01920 | -.00140 | .00970 | 55.00000 | .02000 | -.00980 | .00700 |
| | GRADIENT | -.00004 | -.00105 | -.00000 | .00000 | -.00119 | .00000 | .00000 | .00000 | .00000 |

RUN NO. 558/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | ELV-1B | AIL-1B | AIL-0B |
|------|----------|---------|---------|---------|---------|--------|----------|--------|---------|---------|
| .951 | -14.970 | -.07880 | .01320 | .01290 | -.00780 | .00970 | 55.00000 | .02000 | -.00980 | -.00580 |
| .952 | -10.762 | -.07850 | .00720 | .01820 | -.01310 | .00970 | 55.00000 | .02490 | -.01470 | -.01150 |
| .951 | -4.961 | -.07910 | .00170 | .01570 | -.01060 | .00970 | 55.00000 | .02000 | -.00980 | -.01150 |
| .951 | -2.426 | -.07940 | -.00070 | .01570 | -.01060 | .00970 | 55.00000 | .02000 | -.00980 | -.01150 |
| .950 | -.096 | -.07750 | -.00310 | .01570 | -.01060 | .00970 | 55.00000 | .02000 | -.00980 | -.01150 |
| .951 | 2.488 | -.07870 | -.00520 | .01530 | -.01020 | .00970 | 55.00000 | .02490 | -.01470 | -.00580 |
| .951 | 5.024 | -.08050 | -.00850 | .01290 | -.00780 | .00970 | 55.00000 | .02000 | -.00980 | -.01150 |
| .951 | 10.027 | -.08150 | -.01500 | .01570 | -.01060 | .00970 | 55.00000 | .02000 | -.00980 | -.01150 |
| .951 | 15.022 | -.08580 | -.02110 | .01570 | -.01060 | .00970 | 55.00000 | .02000 | -.00980 | -.01150 |
| .950 | 18.125 | -.08720 | -.02530 | .01820 | -.01310 | .00970 | 55.00000 | .02490 | -.01470 | -.01150 |
| .951 | 22.771 | -.09010 | -.02980 | .01820 | -.01310 | .00970 | 55.00000 | .02490 | -.01470 | -.01150 |
| | GRADIENT | .00012 | -.00094 | -.00005 | .00005 | .00000 | .00000 | .00060 | .00060 | .00070 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA
AMES 118-1-11 0A145A 01

PAGE 1154
(C2F0A4) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 BETA = .000
ELEVON = .000 AILRON = .000
BDFLAP = .000 SPD8RK = 55.000
RN/L = 5.000

RUN NO. 543/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPD8RK | ELV-1B | ELV-OB | AIL-1B | AIL-OB |
|-------|----------|---------|---------|--------|---------|---------|----------|--------|---------|---------|---------|
| 1.201 | -14.976 | -1.3560 | .01610 | .01280 | -.01280 | .02910 | 55.00000 | .01980 | .00580 | -.01980 | -.00580 |
| 1.203 | -10.745 | -1.3740 | .01310 | .01280 | -.01280 | .03880 | 55.00000 | .01980 | .00580 | -.01980 | -.00580 |
| 1.201 | -4.939 | -1.3800 | .00900 | .01280 | -.01280 | .02910 | 55.00000 | .01980 | .00580 | -.01980 | -.00580 |
| 1.201 | -2.434 | -1.3840 | .00760 | .01280 | -.01280 | .03880 | 55.00000 | .01980 | .00580 | -.01980 | -.00580 |
| 1.201 | -1.116 | -1.3820 | .00590 | .01530 | -.01020 | .00000 | 55.00000 | .02490 | .00580 | -.01470 | -.00580 |
| 1.202 | 2.531 | -1.3890 | .00420 | .01530 | -.01020 | .00000 | 55.00000 | .02490 | .00580 | -.01470 | -.00580 |
| 1.201 | 5.014 | -1.4160 | .00250 | .01820 | -.01310 | .00000 | 55.00000 | .02490 | .01150 | -.01470 | -.01150 |
| 1.201 | 10.035 | -1.4280 | -.00190 | .01820 | -.01310 | .00970 | 55.00000 | .02490 | .01150 | -.01470 | -.01150 |
| 1.201 | 15.031 | -1.4220 | -.00490 | .01820 | -.01310 | .00970 | 55.00000 | .02490 | .01150 | -.01470 | -.01150 |
| 1.200 | 18.125 | -1.4160 | -.00660 | .01820 | -.01310 | .00970 | 55.00000 | .02490 | .01150 | -.01470 | -.01150 |
| 1.201 | 22.649 | -1.4000 | -.00880 | .01820 | -.01310 | .00970 | 55.00000 | .02490 | .01150 | -.01470 | -.01150 |
| 1.201 | GRADIENT | -.00010 | -.00065 | .00040 | .00042 | -.00503 | .00000 | .00082 | -.00000 | .00082 | .00000 |

AMES 118-1-11 0A145A 01

(C2F0A5) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELEVON = .000 AILRON = .000
BDFLAP = .000 SPD8RK = 55.000
RN/L = 5.000

RUN NO. 584/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPD8RK | ELV-1B | ELV-OB | AIL-1B | AIL-OB |
|------|----------|---------|---------|---------|---------|--------|----------|--------|--------|---------|---------|
| .597 | -14.976 | 4.94170 | .03350 | .01920 | -.00140 | .00000 | 55.00000 | .02000 | .01850 | -.00980 | -.00700 |
| .598 | -10.762 | 4.95210 | .03030 | .01420 | -.00060 | .00970 | 55.00000 | .02000 | .00850 | -.00980 | .00850 |
| .599 | -4.947 | 4.99320 | .02630 | .01500 | -.00560 | .00000 | 55.00000 | .02000 | .01000 | -.00980 | -.00150 |
| .599 | -2.434 | 4.93450 | .02400 | .01500 | -.00560 | .00000 | 55.00000 | .02000 | .01000 | -.00980 | -.00150 |
| .599 | -2.213 | 4.99560 | .02120 | .01500 | -.00560 | .00970 | 55.00000 | .02000 | .01000 | -.00980 | -.00150 |
| .598 | 2.022 | 4.99460 | .01890 | .01500 | -.00560 | .00000 | 55.00000 | .02000 | .01000 | -.00980 | -.00150 |
| .598 | 5.014 | 4.99520 | .01560 | .01500 | -.00560 | .00000 | 55.00000 | .02000 | .01000 | -.00980 | -.00150 |
| .598 | 9.995 | 4.99490 | .01140 | .01500 | -.00560 | .00000 | 55.00000 | .02000 | .01000 | -.00980 | -.00150 |
| .598 | 15.031 | 4.99520 | .00760 | .01500 | -.00560 | .00000 | 55.00000 | .02000 | .01000 | -.00980 | -.00150 |
| .597 | 18.125 | 4.99540 | .00570 | .01500 | -.00560 | .00000 | 55.00000 | .02000 | .01000 | -.00980 | -.00150 |
| .598 | 22.846 | 4.99580 | .00270 | .01210 | -.00280 | .00000 | 55.00000 | .02000 | .00430 | -.00980 | -.00430 |
| .598 | GRADIENT | .00023 | -.00108 | -.00000 | .00000 | .00167 | .00000 | .00000 | .00000 | .00000 | .00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1155

AMES 118-1-11 OAI45A 01

(C2F0A5) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8100 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0500

RUN NO. 563/ 0

RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILIRON | BDFLAP | SPDBRK | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|--------|---------|--------|----------|---------|---------|---------|
| .800 | -14.935 | 5.01880 | .04010 | .01500 | -.00560 | .00000 | 55.00000 | .01000 | -.00980 | -.00150 |
| .799 | -10.762 | 5.02130 | .03620 | .01500 | -.00560 | .00970 | 55.00000 | .01000 | -.00980 | -.00150 |
| .799 | -4.954 | 5.02300 | .03120 | .01500 | -.00560 | .00000 | 55.00000 | .01000 | -.00980 | -.00150 |
| .800 | -2.426 | 5.02290 | .02830 | .01500 | -.00560 | .00000 | 55.00000 | .01000 | -.00980 | -.00150 |
| .798 | -.103 | 5.02310 | .02520 | .01500 | -.00560 | .00000 | 55.00000 | .01000 | -.00980 | -.00150 |
| .800 | 2.513 | 5.02480 | .02160 | .01500 | -.00560 | .00000 | 55.00000 | .01000 | -.00980 | -.00150 |
| .799 | 4.986 | 5.02510 | .01810 | .01500 | -.00560 | .00000 | 55.00000 | .01000 | -.00980 | -.00150 |
| .801 | 10.027 | 5.02780 | .01290 | .01500 | -.00560 | .00000 | 55.00000 | .01000 | -.00980 | -.00150 |
| .799 | 15.005 | 5.02450 | .00840 | .01500 | -.00560 | .00000 | 55.00000 | .01000 | -.00980 | -.00150 |
| .800 | 18.107 | 5.02580 | .00600 | .01500 | -.00560 | .00000 | 55.00000 | .01000 | -.00980 | -.00150 |
| .799 | 22.846 | 5.02500 | .00240 | .01500 | -.00560 | .00000 | 55.00000 | .01000 | -.00980 | -.00150 |
| | GRADIENT | .00025 | -.00133 | .00000 | .00000 | .00000 | .00000 | -.00000 | -.00000 | -.00000 |

RUN NO. 568/ 0

RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILIRON | BDFLAP | SPDBRK | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|---------|---------|---------|----------|--------|---------|---------|
| .900 | -14.976 | 4.97110 | .04750 | .01500 | -.00560 | .00970 | 55.00000 | .01000 | -.00980 | -.00150 |
| .900 | -10.745 | 4.97420 | .04350 | .01710 | -.00350 | .01940 | 55.00000 | .01430 | -.00980 | .00270 |
| .899 | -4.939 | 4.97620 | .03800 | .01710 | -.00350 | .01940 | 55.00000 | .01430 | -.00980 | .00270 |
| .901 | -2.426 | 4.97920 | .03500 | .01960 | -.00600 | .00970 | 55.00000 | .01430 | -.01470 | .00270 |
| .900 | -.096 | 4.97840 | .03150 | .01710 | -.00350 | .01940 | 55.00000 | .01430 | -.00980 | .00270 |
| .899 | 2.531 | 4.97980 | .02780 | .01710 | -.00350 | .00970 | 55.00000 | .01430 | -.00980 | .00270 |
| .900 | 4.968 | 4.98270 | .02400 | .01710 | -.00350 | .01940 | 55.00000 | .01430 | -.00980 | .00270 |
| .900 | 10.011 | 4.98220 | .01830 | .01960 | -.00600 | .01940 | 55.00000 | .01430 | -.01470 | .00270 |
| .900 | 15.014 | 4.97980 | .01380 | .01710 | -.00350 | .01940 | 55.00000 | .01430 | -.00980 | .00270 |
| .899 | 18.143 | 4.97700 | .01140 | .01710 | -.00350 | .01940 | 55.00000 | .01430 | -.00980 | .00270 |
| .900 | 22.818 | 4.97870 | .00800 | .01960 | -.00600 | .01940 | 55.00000 | .01430 | -.01470 | .00270 |
| | GRADIENT | .00055 | -.00142 | -.00010 | .00010 | -.00001 | .00000 | .00000 | .00019 | .00000 |

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILIRON = .000
 BDFLAP = .000 SPDBRK = 55.000
 RN/L = 5.000

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

PAGE 1156
(C2F0A5) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA =
ELEVON =
BDFLAP =
RN/L =
BETA =
AILRON =
SPDBRK =
5.000
.000
.000
5.000
5.000
.000
55.000

RUN NO. 562/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-08 | AIL-IB | AIL-08 |
|------|----------|---------|---------|---------|---------|---------|----------|--------|---------|---------|
| .951 | -14.965 | 5.06650 | .04330 | .01500 | -.00560 | .01940 | 55.00000 | .01000 | -.00980 | -.00150 |
| .951 | -10.727 | 5.07000 | .03890 | .01500 | -.00560 | .01940 | 55.00000 | .01000 | -.00980 | -.00150 |
| .950 | -4.947 | 5.07370 | .03390 | .01500 | -.00560 | .01940 | 55.00000 | .01000 | -.00980 | -.00150 |
| .949 | -2.459 | 5.06810 | .03210 | .01750 | -.00810 | .01940 | 55.00000 | .01000 | -.01470 | -.00150 |
| .950 | -.096 | 5.07240 | .02880 | .01750 | -.00810 | .01940 | 55.00000 | .01000 | -.01470 | -.00150 |
| .951 | 2.505 | 5.07380 | .02500 | .01500 | -.00560 | .00970 | 55.00000 | .01000 | -.00980 | -.00150 |
| .951 | 5.024 | 5.07720 | .02120 | .01750 | -.00810 | .01940 | 55.00000 | .01000 | -.01470 | -.00150 |
| .951 | 10.027 | 5.07460 | .01560 | .01500 | -.00560 | .01940 | 55.00000 | .01000 | -.00980 | -.00150 |
| .950 | 15.005 | 5.07170 | .01030 | .01500 | -.00560 | .01940 | 55.00000 | .01000 | -.00980 | -.00150 |
| .949 | 18.134 | 5.07270 | .00770 | .01500 | -.00560 | .01940 | 55.00000 | .01000 | -.00980 | -.00150 |
| .951 | 22.780 | 5.07080 | .00390 | .01500 | -.00560 | .01940 | 55.00000 | .01000 | -.00980 | -.00150 |
| | GRADIENT | .00018 | -.00121 | -.00000 | .00000 | -.00119 | .00000 | .00000 | .00001 | -.00000 |

RUN NO. 541/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-08 | AIL-IB | AIL-08 |
|-------|----------|---------|---------|--------|---------|--------|----------|--------|---------|---------|
| 1.201 | -14.976 | 5.13760 | .04360 | .01280 | -.01280 | .02910 | 55.00000 | .00580 | -.01980 | -.00580 |
| 1.202 | -10.745 | 5.16470 | .04230 | .01280 | -.01280 | .02910 | 55.00000 | .00580 | -.01980 | -.00580 |
| 1.201 | -4.954 | 5.16450 | .03950 | .01280 | -.01280 | .01940 | 55.00000 | .00580 | -.01980 | -.00580 |
| 1.201 | -2.434 | 5.16590 | .03800 | .01280 | -.01280 | .02910 | 55.00000 | .00580 | -.01980 | -.00580 |
| 1.201 | -.751 | 5.16660 | .03610 | .01280 | -.01280 | .02910 | 55.00000 | .00580 | -.01980 | -.00580 |
| 1.200 | -.103 | 5.16650 | .03530 | .01280 | -.01280 | .02910 | 55.00000 | .00580 | -.01980 | -.00580 |
| 1.202 | 2.513 | 5.16630 | .03210 | .01530 | -.01020 | .02910 | 55.00000 | .00580 | -.01470 | -.00580 |
| 1.201 | 5.005 | 5.16720 | .02970 | .01530 | -.01020 | .02910 | 55.00000 | .00580 | -.01470 | -.00580 |
| 1.202 | 10.027 | 5.16710 | .02700 | .01530 | -.01020 | .02910 | 55.00000 | .00580 | -.01470 | -.00580 |
| 1.202 | 15.014 | 5.16920 | .02480 | .01280 | -.01280 | .02910 | 55.00000 | .00580 | -.01980 | -.00580 |
| 1.201 | 18.134 | 5.17040 | .02370 | .01280 | -.01280 | .02910 | 55.00000 | .00580 | -.01980 | -.00580 |
| 1.201 | 22.677 | 5.17490 | .02250 | .01280 | -.01280 | .02910 | 55.00000 | .00580 | -.01980 | -.00580 |
| 1.200 | GRADIENT | .00025 | -.00100 | .00000 | -.00000 | .00005 | .00000 | .00000 | .00000 | .00000 |

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OAI145 TABULATED FORCE DATA

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ANES 118-1-11 OAI145A 01

(C2F0A5) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA =
 ELEVON =
 BDFLAP =
 RN/L =
 5.000 BETA = .000
 .000 AILRON = .000
 .000 SPDBRK = 55.000
 5.000

RUN NO. 529/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-1B | AIL-1B | ELV-0B | AIL-0B |
|-------|----------|---------|---------|--------|---------|---------|----------|--------|--------|--------|---------|
| 1.305 | -14.752 | 5.02470 | .04440 | .01080 | -.00070 | .00000 | 55.00000 | .01020 | .01020 | .01150 | -.01150 |
| 1.301 | -10.691 | 5.02560 | .04260 | .01080 | -.00070 | .00000 | 55.00000 | .01020 | .01020 | .01150 | -.01150 |
| 1.299 | -5.359 | 5.02590 | .04080 | .01080 | -.00070 | .00000 | 55.00000 | .01020 | .01020 | .01150 | -.01150 |
| 1.299 | -2.751 | 5.02600 | .03870 | .01080 | -.00070 | .00000 | 55.00000 | .01020 | .01020 | .01150 | -.01150 |
| 1.297 | -.141 | 5.02720 | .03600 | .01080 | -.00070 | .00970 | 55.00000 | .01020 | .01020 | .01150 | -.01150 |
| 1.299 | 2.333 | 5.02780 | .03340 | .01080 | -.00070 | .00000 | 55.00000 | .01020 | .01020 | .01150 | -.01150 |
| 1.299 | 4.802 | 5.02900 | .03130 | .01080 | -.00070 | .00000 | 55.00000 | .01020 | .01020 | .01150 | -.01150 |
| 1.299 | 9.756 | 5.03080 | .02830 | .01080 | -.00070 | .00000 | 55.00000 | .01020 | .01020 | .01150 | -.01150 |
| 1.299 | 14.582 | 5.03260 | .02620 | .01080 | -.00070 | .00000 | 55.00000 | .01020 | .01020 | .01150 | -.01150 |
| 1.299 | 18.061 | 5.03370 | .02470 | .01080 | -.00070 | .00000 | 55.00000 | .01020 | .01020 | .01150 | -.01150 |
| 1.298 | 22.399 | 5.03500 | .02380 | .01080 | -.00070 | .00000 | 55.00000 | .01020 | .01020 | .01150 | -.01150 |
| | GRADIENT | .03038 | -.00099 | .00000 | .00000 | -.00037 | -.00000 | .00000 | .00000 | .00000 | .00000 |

RUN NO. 520/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-1B | AIL-1B | ELV-0B | AIL-0B |
|-------|----------|---------|---------|--------|---------|---------|----------|---------|---------|--------|---------|
| 1.403 | -14.736 | 5.07570 | .03780 | .01580 | -.00560 | -.01000 | 55.00000 | .02010 | .00030 | .01150 | -.01150 |
| 1.403 | -10.727 | 5.07530 | .03640 | .01580 | -.00560 | .00000 | 55.00000 | .02010 | .00030 | .01150 | -.01150 |
| 1.405 | -5.388 | 4.59480 | .05440 | .01330 | -.00820 | .00000 | 55.00000 | .01500 | -.00480 | .01150 | -.01150 |
| 1.404 | -2.784 | 4.60980 | .05110 | .01330 | -.00820 | .00000 | 55.00000 | .01500 | -.00480 | .01150 | -.01150 |
| 1.404 | -.123 | 5.30080 | .01810 | .01580 | -.00560 | .00000 | 55.00000 | .02010 | .00030 | .01150 | -.01150 |
| 1.404 | 2.367 | 4.59600 | .04250 | .02140 | .00490 | .00000 | 55.00000 | .01000 | .00010 | .03280 | .00970 |
| 1.404 | 4.792 | 4.59680 | .04100 | .02390 | .00250 | .00000 | 55.00000 | .01500 | .00480 | .03280 | .00970 |
| 1.404 | 9.724 | 4.59920 | .03810 | .02390 | .00250 | .00000 | 55.00000 | .01500 | .00480 | .03280 | .00970 |
| 1.404 | 14.556 | 4.59360 | .03620 | .02390 | .00250 | .00000 | 55.00000 | .01500 | .00480 | .03280 | .00970 |
| 1.404 | 18.116 | 4.59360 | .03510 | .02390 | .00250 | .00970 | 55.00000 | .01500 | .00480 | .03280 | .00970 |
| 1.403 | 22.335 | 4.60160 | .03390 | .02390 | .00250 | .00000 | 55.00000 | .01500 | .00480 | .03280 | .00970 |
| | GRADIENT | -.02785 | -.00031 | .00148 | .00169 | .00000 | -.00000 | -.00040 | .00001 | .00337 | .00335 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

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AMES 118-1-11 0A145A 01

(C2FOA8) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA =
 ELEVON =
 BDFLAP =
 RN/L =
 10.000 BETA = .000
 .000 AILRON = .000
 .000 SPDBRK = 55.000
 5.000

RUN NO. 594/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-08 | AIL-1B | AIL-08 |
|------|----------|----------|---------|--------|---------|---------|----------|---------|---------|---------|
| .599 | -14.993 | 10.13100 | .06330 | .01290 | -.00780 | .00000 | 55.00000 | .00580 | -.00980 | -.00580 |
| .597 | -10.736 | 10.13000 | .06000 | .01290 | -.00780 | .00970 | 55.00000 | .00580 | -.00980 | -.00580 |
| .597 | -4.932 | 10.13300 | .05520 | .01530 | -.01020 | .00000 | 55.00000 | .00580 | -.01470 | -.00580 |
| .597 | -2.426 | 10.13400 | .05300 | .01530 | -.01020 | .00000 | 55.00000 | .00580 | -.01470 | -.00580 |
| .597 | -1.103 | 10.13400 | .05040 | .01530 | -.01020 | .00970 | 55.00000 | .00580 | -.01470 | -.00580 |
| .597 | 2.496 | 10.13700 | .04700 | .01530 | -.01020 | .00000 | 55.00000 | .00580 | -.01470 | -.00580 |
| .597 | 4.996 | 10.13700 | .04420 | .01530 | -.01270 | .00000 | 55.00000 | .00580 | -.01970 | -.00580 |
| .597 | 10.003 | 10.13800 | .03980 | .01780 | -.01270 | .00970 | 55.00000 | .00580 | -.01970 | -.00580 |
| .597 | 15.005 | 10.14100 | .03600 | .01780 | -.01270 | .00970 | 55.00000 | .00580 | -.01970 | -.00580 |
| .598 | 18.107 | 10.14200 | .03370 | .01780 | -.01270 | .00000 | 55.00000 | .00580 | -.01970 | -.00580 |
| .598 | 22.780 | 10.14300 | .03090 | .01780 | -.01270 | .00000 | 55.00000 | .00580 | -.01970 | -.00580 |
| | GRADIENT | .00045 | -.00113 | .00000 | -.00000 | -.00002 | -.00000 | -.00000 | .00000 | .00000 |

RUN NO. 578/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-08 | AIL-1B | AIL-08 |
|------|----------|----------|---------|--------|---------|--------|----------|--------|---------|---------|
| .798 | -14.976 | 10.26200 | .12940 | .01710 | -.00350 | .00000 | 55.00000 | .01430 | -.00980 | .00270 |
| .799 | -10.727 | 10.26200 | .12550 | .01500 | -.00560 | .00970 | 55.00000 | .01000 | -.00980 | -.00150 |
| .798 | -4.932 | 10.25800 | .12040 | .01500 | -.00560 | .00000 | 55.00000 | .01000 | -.00980 | -.00150 |
| .799 | -2.434 | 10.25900 | .11770 | .01500 | -.00560 | .00000 | 55.00000 | .01000 | -.00980 | -.00150 |
| .799 | -.096 | 10.26100 | .11510 | .01500 | -.00560 | .00970 | 55.00000 | .01000 | -.00980 | -.00150 |
| .799 | 2.496 | 10.26200 | .11140 | .01500 | -.00560 | .00000 | 55.00000 | .01000 | -.00980 | -.00150 |
| .799 | 5.014 | 10.26100 | .10780 | .01500 | -.00560 | .00970 | 55.00000 | .01000 | -.00980 | -.00150 |
| .797 | 10.027 | 10.25800 | .10270 | .01500 | -.00560 | .00000 | 55.00000 | .01000 | -.00980 | -.00150 |
| .799 | 15.014 | 10.25900 | .09840 | .01500 | -.00560 | .00000 | 55.00000 | .01000 | -.00980 | -.00150 |
| .798 | 18.107 | 10.25800 | .09600 | .01710 | -.00350 | .00000 | 55.00000 | .01430 | -.00980 | .00270 |
| .798 | 22.818 | 10.25600 | .09230 | .01500 | -.00560 | .00000 | 55.00000 | .01000 | -.00980 | -.00150 |
| .799 | GRADIENT | .00057 | -.00120 | .00000 | .00000 | .00037 | .00000 | .00000 | .00000 | .00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1159

AMES 118-1-11 OAI45A 01

(C2F0A6) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8100 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0500

ALPHA =
 ELEVON =
 BDFLAP =
 RN/L =

10.000 BETA =
 .000 AILRON =
 .000 SPDBRK =
 5.000

PARAMETRIC DATA

RUN NO. 570/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|----------|---------|--------|---------|--------|----------|--------|--------|---------|--------|
| .899 | -14.970 | 10.13600 | .04940 | .01710 | -.00350 | .00970 | 55.00000 | .02000 | .01430 | -.00980 | .00270 |
| .901 | -10.745 | 10.14200 | .04530 | .01710 | -.00350 | .01940 | 55.00000 | .02000 | .01430 | -.00980 | .00270 |
| .900 | -4.961 | 10.14500 | .04030 | .01710 | -.00350 | .00970 | 55.00000 | .02000 | .01430 | -.00980 | .00270 |
| .902 | -2.418 | 10.15400 | .03720 | .01710 | -.00350 | .00970 | 55.00000 | .02000 | .01430 | -.00980 | .00270 |
| .902 | -1.103 | 10.15100 | .03420 | .01710 | -.00350 | .00970 | 55.00000 | .02000 | .01430 | -.00980 | .00270 |
| .899 | 2.522 | 10.14900 | .03080 | .01710 | -.00350 | .00970 | 55.00000 | .02000 | .01430 | -.00980 | .00270 |
| .901 | 4.996 | 10.15400 | .02720 | .01710 | -.00350 | .01940 | 55.00000 | .02000 | .01430 | -.00980 | .00270 |
| .900 | 10.011 | 10.15400 | .02150 | .01710 | -.00350 | .00970 | 55.00000 | .02000 | .01430 | -.00980 | .00270 |
| .901 | 15.014 | 10.15600 | .01720 | .01710 | -.00350 | .00970 | 55.00000 | .02000 | .01430 | -.00980 | .00270 |
| .901 | 18.107 | 10.15500 | .01500 | .01710 | -.00350 | .00970 | 55.00000 | .02000 | .01430 | -.00980 | .00270 |
| .900 | 22.818 | 10.15300 | .01170 | .01710 | -.00350 | .00970 | 55.00000 | .02000 | .01430 | -.00980 | .00270 |
| | GRADIENT | .00053 | -.00131 | .00000 | -.00000 | .00078 | .00000 | .00000 | .00000 | -.00000 | .00000 |

RUN NO. 559/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|----------|---------|---------|---------|---------|----------|--------|---------|---------|---------|
| .912 | -14.965 | 10.20400 | .03940 | .01790 | -.00850 | .00970 | 55.00000 | .02000 | .01580 | -.00980 | -.00730 |
| .950 | -10.727 | 10.19300 | .03550 | .01790 | -.00850 | .01940 | 55.00000 | .02000 | .01580 | -.00980 | -.00730 |
| .952 | -4.961 | 10.21600 | .03030 | .01290 | -.00780 | .00970 | 55.00000 | .02000 | .00580 | -.00980 | -.00580 |
| .951 | -2.451 | 10.21000 | .02800 | .01790 | -.00850 | .00970 | 55.00000 | .02000 | .01580 | -.00980 | -.00730 |
| .951 | -.089 | 10.20900 | .02560 | .01790 | -.00850 | .00970 | 55.00000 | .02000 | .01580 | -.00980 | -.00730 |
| .952 | 2.505 | 10.21100 | .02190 | .01290 | -.00780 | .00000 | 55.00000 | .02000 | .00580 | -.00980 | -.00580 |
| .951 | 5.005 | 10.21000 | .01920 | .01790 | -.00850 | .00970 | 55.00000 | .02000 | .01580 | -.00980 | -.00730 |
| .952 | 10.011 | 10.21800 | .01420 | .01500 | -.00560 | .00970 | 55.00000 | .02000 | .01000 | -.00980 | -.00150 |
| .951 | 15.005 | 10.21400 | .01030 | .01790 | -.00850 | .00970 | 55.00000 | .02000 | .01580 | -.00980 | -.00730 |
| .950 | 18.107 | 10.21100 | .00760 | .02000 | -.00640 | .00970 | 55.00000 | .02000 | .02000 | -.00980 | -.00300 |
| .950 | 22.855 | 10.21300 | .00420 | .01710 | -.00350 | .00970 | 55.00000 | .02000 | .01430 | -.00980 | -.00270 |
| | GRADIENT | -.00064 | -.00112 | -.00001 | .00000 | -.00119 | .00000 | .00000 | -.00001 | -.00000 | .00000 |

DATE 10 MAR 80

OAI145 TABULATED FORCE DATA

PAGE 1160

AMES 118-1-11 OAI145A 01

(C2F0A6) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 BETA = .000
ELEVON = .000 AILRON = .000
BOFLAP = .000 SPD8RK = .000
RN/L = 5.000

RUN NO. 544/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPD8RK | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|----------|---------|---------|---------|--------|----------|---------|--------|---------|---------|
| 1.203 | -14.965 | 10.32800 | .03060 | .01820 | -.01310 | .00000 | 55.00000 | .02490 | .01150 | -.01470 | -.01150 |
| 1.203 | -10.754 | 10.04300 | .02410 | .01820 | -.01310 | .00970 | 55.00000 | .02490 | .01150 | -.01470 | -.01150 |
| 1.202 | -4.954 | 10.04400 | .02120 | .01820 | -.01310 | .00970 | 55.00000 | .02490 | .01150 | -.01470 | -.01150 |
| 1.202 | -2.451 | 10.04600 | .01890 | .01820 | -.01310 | .00970 | 55.00000 | .02490 | .01150 | -.01470 | -.01150 |
| 1.202 | -.096 | 10.04600 | .01700 | .01570 | -.01570 | .01940 | 55.00000 | .01980 | .01150 | -.01980 | -.01150 |
| 1.203 | 2.522 | 10.04800 | .01360 | .01820 | -.01310 | .01940 | 55.00000 | .02490 | .01150 | -.01470 | -.01150 |
| 1.201 | 5.024 | 10.04900 | .01120 | .01320 | -.01310 | .01940 | 55.00000 | .02490 | .01150 | -.01470 | -.01150 |
| 1.201 | 10.027 | 10.04900 | .00840 | .01820 | -.01310 | .01940 | 55.00000 | .02490 | .01150 | -.01470 | -.01150 |
| 1.201 | 15.005 | 10.05200 | .00560 | .01820 | -.01310 | .02910 | 55.00000 | .02490 | .01150 | -.01470 | -.01150 |
| 1.200 | 18.143 | 10.05400 | .00450 | .01820 | -.01310 | .02910 | 55.00000 | .02490 | .01150 | -.01470 | -.01150 |
| 1.202 | 22.677 | 10.05500 | .00320 | .01820 | -.01310 | .02910 | 55.00000 | .02490 | .01150 | -.01470 | -.01150 |
| | GRADIENT | .00049 | -.00100 | -.00009 | -.00010 | .00155 | .00000 | -.00019 | .00000 | -.00019 | -.00000 |

RUN NO. 528/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPD8RK | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|----------|---------|--------|---------|---------|----------|--------|--------|--------|---------|
| 1.308 | -14.741 | 10.12900 | .03170 | .00830 | -.00320 | .00000 | 55.00000 | .00510 | .01150 | .00510 | -.01150 |
| 1.307 | -10.655 | 10.12800 | .02910 | .00830 | -.00320 | .00970 | 55.00000 | .00510 | .01150 | .00510 | -.01150 |
| 1.300 | -5.381 | 10.13400 | .02580 | .00830 | -.00320 | .00970 | 55.00000 | .00510 | .01150 | .00510 | -.01150 |
| 1.300 | -2.792 | 10.13600 | .02350 | .00830 | -.00320 | .00970 | 55.00000 | .00510 | .01150 | .00510 | -.01150 |
| 1.298 | -.089 | 10.13800 | .02120 | .00830 | -.00320 | .00000 | 55.00000 | .00510 | .01150 | .00510 | -.01150 |
| 1.298 | 2.307 | 10.13800 | .01990 | .00830 | -.00320 | .00970 | 55.00000 | .00510 | .01150 | .00510 | -.01150 |
| 1.298 | 4.848 | 10.13800 | .01740 | .00830 | -.00320 | .00970 | 55.00000 | .00510 | .01150 | .00510 | -.01150 |
| 1.298 | 9.740 | 10.14000 | .01440 | .01080 | -.00070 | .00000 | 55.00000 | .01020 | .01150 | .01020 | -.01150 |
| 1.298 | 14.538 | 10.14500 | .01190 | .01080 | -.00070 | .00970 | 55.00000 | .01020 | .01150 | .01020 | -.01150 |
| 1.298 | 18.080 | 10.14500 | .01110 | .01080 | -.00070 | .00970 | 55.00000 | .01020 | .01150 | .01020 | -.01150 |
| 1.298 | 22.445 | 10.14800 | .00980 | .01080 | -.00070 | .00970 | 55.00000 | .01020 | .01150 | .01020 | -.01150 |
| | GRADIENT | .00024 | -.00078 | .00000 | -.00000 | -.00037 | -.00000 | .00000 | .00000 | .00000 | .00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1161

AMES 118-1-11 OAI45A 01

(C2F0A6) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

ALPHA = 10.000 BETA = .000
ELEVON = .000 AILRON = .000
BDFLAP = .000 SPDBRK = 55.000
RN/L = 5.000

PARAMETRIC DATA

RUN NO. 521/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|----------|---------|--------|--------|--------|----------|--------|--------|---------|--------|
| 1.396 | -14.752 | 10.22700 | .01950 | .02180 | .00030 | .00000 | 55.00000 | .01500 | .02850 | -.00480 | .00550 |
| 1.398 | -10.682 | 10.21700 | .01750 | .02180 | .00030 | .00000 | 55.00000 | .01500 | .02850 | -.00480 | .00550 |
| 1.400 | -5.351 | 10.21200 | .01580 | .02180 | .00030 | .00000 | 55.00000 | .01500 | .02850 | -.00480 | .00550 |
| 1.402 | -2.751 | 10.21300 | .01250 | .02180 | .00030 | .00000 | 55.00000 | .01500 | .02850 | -.00480 | .00550 |
| 1.402 | -1.141 | 10.21200 | .01150 | .02390 | .00250 | .00000 | 55.00000 | .01500 | .02850 | -.00480 | .00550 |
| 1.402 | 2.358 | 10.21200 | .00930 | .02390 | .00250 | .00000 | 55.00000 | .01500 | .02850 | -.00480 | .00550 |
| 1.402 | 4.820 | 10.21200 | .00750 | .02390 | .00250 | .00000 | 55.00000 | .01500 | .02850 | -.00480 | .00550 |
| 1.402 | 9.692 | 10.21400 | .00420 | .02180 | .00030 | .00000 | 55.00000 | .01500 | .02850 | -.00480 | .00550 |
| 1.402 | 14.521 | 10.21800 | .00170 | .02390 | .00250 | .00000 | 55.00000 | .01500 | .02850 | -.00480 | .00550 |
| 1.402 | 18.080 | 10.21800 | .00120 | .02390 | .00250 | .00000 | 55.00000 | .01500 | .02850 | -.00480 | .00550 |
| 1.402 | 22.427 | 10.22400 | -.00090 | .02390 | .00250 | .00000 | 55.00000 | .01500 | .02850 | -.00480 | .00550 |
| 1.402 | GRADIENT | -.00012 | -.00068 | .00017 | .00018 | .00000 | .00000 | .00000 | .00034 | -.00000 | .00034 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

ALPHA = 15.000 BETA = .000
ELEVON = .000 AILRON = .000
BDFLAP = .000 SPDBRK = 55.000
RN/L = 5.000

PARAMETRIC DATA

AMES 118-1-11 OAI45A 01

(C2F0A7) (08 JUL 77)

RUN NO. 545/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|----------|---------|--------|---------|--------|----------|--------|--------|---------|---------|
| 1.196 | -14.960 | 15.10100 | .02610 | .02240 | -.01390 | .00000 | 55.00000 | .02480 | .02000 | -.02480 | -.00300 |
| 1.203 | -10.745 | 15.09400 | .02300 | .01950 | -.01100 | .00970 | 55.00000 | .02480 | .01430 | -.02480 | -.00270 |
| 1.202 | -4.932 | 15.03200 | .03000 | .02240 | -.01390 | .00970 | 55.00000 | .02480 | .02000 | -.02480 | -.00300 |
| 1.202 | -2.434 | 15.03500 | .02830 | .02490 | -.01130 | .00970 | 55.00000 | .02990 | .02000 | -.01970 | -.00300 |
| 1.201 | -1.103 | 15.03700 | .02580 | .02490 | -.01130 | .00970 | 55.00000 | .02990 | .02000 | -.01970 | -.00300 |
| 1.199 | 2.522 | 15.04200 | .02250 | .02490 | -.01130 | .00970 | 55.00000 | .02990 | .02000 | -.01970 | -.00300 |
| 1.202 | 5.024 | 15.04000 | .01900 | .02240 | -.01390 | .01940 | 55.00000 | .02480 | .02000 | -.01970 | -.00300 |
| 1.200 | 10.019 | 15.04500 | .01460 | .02490 | -.01130 | .00970 | 55.00000 | .02990 | .02000 | -.01970 | -.00300 |
| 1.202 | 15.014 | 15.04700 | .00930 | .02490 | -.01130 | .00970 | 55.00000 | .02990 | .02000 | -.01970 | -.00300 |
| 1.198 | 18.116 | 15.05200 | .00830 | .02490 | -.01130 | .00970 | 55.00000 | .02990 | .02000 | -.01970 | -.00300 |
| 1.200 | 22.686 | 15.05300 | .00670 | .02480 | -.01130 | .01940 | 55.00000 | .02990 | .02000 | -.01970 | -.00300 |
| 1.200 | GRADIENT | .00130 | -.00101 | .00030 | .00031 | .00000 | .00000 | .00062 | .00000 | .00062 | .00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1162

(C2F0A7) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 522/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

ALPHA = 15.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = 55.000
 RN/L = 5.000

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-1B | ELV-OB | AIL-1B | AIL-OB |
|-------|----------|----------|---------|--------|---------|---------|----------|--------|--------|---------|--------|
| 1.393 | -14.731 | 15.31100 | .04490 | .01920 | -.00220 | .00000 | 55.00000 | .00990 | .02850 | -.00990 | .00550 |
| 1.394 | -10.691 | 15.30500 | .04440 | .01920 | -.00220 | .00000 | 55.00000 | .00990 | .02850 | -.00990 | .00550 |
| 1.397 | -5.381 | 15.30400 | .03850 | .01920 | -.00220 | .00000 | 55.00000 | .00990 | .02850 | -.00990 | .00550 |
| 1.399 | -2.776 | 15.30500 | .03620 | .01920 | -.00220 | .00000 | 55.00000 | .00990 | .02850 | -.00990 | .00550 |
| 1.398 | 2.350 | 15.30100 | .03760 | .01920 | -.00220 | .00970 | 55.00000 | .00990 | .02850 | -.00990 | .00550 |
| 1.398 | 4.848 | 15.30700 | .03050 | .01920 | -.00220 | .00000 | 55.00000 | .00990 | .02850 | -.00990 | .00550 |
| 1.398 | 9.708 | 15.30900 | .03070 | .02390 | .00250 | .00000 | 55.00000 | .01500 | .03280 | -.00480 | .00970 |
| 1.398 | 14.547 | 15.31200 | .02660 | .02390 | .00250 | .00970 | 55.00000 | .01500 | .03280 | -.00480 | .00970 |
| 1.398 | 18.089 | 15.31100 | .02430 | .02600 | .00460 | .00970 | 55.00000 | .01500 | .03700 | -.00480 | .01400 |
| 1.398 | 22.417 | 15.32200 | .01840 | .02320 | .00200 | .00000 | 55.00000 | .00990 | .03700 | -.00990 | .01400 |
| 1.398 | GRADIENT | .00069 | -.00092 | .00055 | -.00035 | -.00000 | -.00000 | .00060 | .00051 | .00060 | .00049 |

AMES 118-1-11 OAI45A 01

(C2F0A8) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 586/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 55.000 RUDDER = -5.000
 RN/L = 5.000

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | ELV-OB | AIL-1B | AIL-OB |
|------|----------|---------|--------|---------|--------|----------|----------|---------|--------|---------|---------|
| .597 | -5.042 | -.02460 | .01420 | -.00060 | .00000 | 55.00000 | -4.93150 | .02000 | .00850 | -.00980 | .00850 |
| .599 | -.062 | .00700 | .01640 | .00150 | .00000 | 55.00000 | -4.93900 | .02000 | .01280 | -.00980 | .01280 |
| .597 | 2.489 | .01480 | .01920 | -.00140 | .00000 | 55.00000 | -4.94650 | .02000 | .01850 | -.00980 | .00700 |
| .597 | 4.986 | .01400 | .01640 | .00150 | .00000 | 55.00000 | -4.96900 | .02000 | .01280 | -.00980 | .00850 |
| .597 | 6.889 | .04490 | .01420 | -.00060 | .00000 | 55.00000 | -4.96150 | .02000 | .00850 | -.00980 | .00850 |
| .598 | 8.073 | .04070 | .01420 | -.00060 | .00000 | 55.00000 | -4.94650 | .02000 | .00850 | -.00980 | .00850 |
| .598 | 10.129 | .04230 | .01210 | -.00280 | .00000 | 55.00000 | -4.95400 | .02000 | .00430 | -.00980 | .00430 |
| .597 | 12.168 | .03580 | .01420 | -.00060 | .00000 | 55.00000 | -4.94650 | .02000 | .00850 | -.00980 | .00850 |
| .598 | 15.201 | .04770 | .01420 | -.00060 | .00000 | 55.00000 | -4.93150 | .02000 | .00850 | -.00980 | .00850 |
| .598 | GRADIENT | .00731 | .00000 | -.00000 | .00000 | .00000 | -.00593 | -.00000 | .00001 | .00000 | -.00001 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1163

AMES 118-1-11 OAI45A 01

(C2F0A8) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 580/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|---------|---------|----------|----------|---------|---------|---------|
| .801 | -5.059 | .07050 | .01710 | -.00350 | .00970 | 55.00000 | -.13210 | .01430 | -.00980 | .00270 |
| .799 | -4.714 | .09560 | .01750 | -.00810 | .00970 | 55.00000 | -4.92400 | .01000 | -.01470 | -.00150 |
| .796 | .038 | .08100 | .01500 | -.00560 | .00970 | 55.00000 | -.12310 | .01000 | -.00980 | -.00150 |
| .800 | 2.593 | .08640 | .01500 | -.00560 | .00000 | 55.00000 | -4.90910 | .01000 | -.00980 | -.00150 |
| .800 | 5.142 | .06680 | .01290 | -.00780 | .00000 | 55.00000 | -4.90910 | .00580 | -.00980 | -.00580 |
| .800 | 7.198 | .09400 | .01500 | -.00560 | .00000 | 55.00000 | -4.91660 | .01000 | -.00980 | -.00150 |
| .798 | 8.227 | .10610 | .01500 | -.00560 | .00000 | 55.00000 | -4.90910 | .01000 | -.00980 | -.00150 |
| .800 | 10.238 | .12460 | .01500 | -.00560 | .00000 | 55.00000 | -4.90910 | .01000 | -.00980 | -.00150 |
| .800 | 12.275 | .14170 | .01500 | -.00560 | .00970 | 55.00000 | -4.91660 | .01000 | -.00980 | -.00150 |
| .799 | 15.268 | .17400 | .01500 | -.00560 | .00970 | 55.00000 | -4.91660 | .01000 | -.00980 | -.00150 |
| | GRADIENT | -.00149 | -.00037 | .00037 | -.00116 | -.00000 | .12962 | -.00072 | .00072 | .00000 |

BETA = .000
 AILRON = .000
 SPDBRK = 55.000
 RUDDER = 5.000
 RN/L =

PARAMETRIC DATA

ELEVON = .000
 BDFLAP = .000
 RUDDER = -5.000

RUN NO. 564/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|---------|--------|----------|----------|---------|---------|---------|
| .901 | -4.349 | -.02560 | .01500 | -.00560 | .00970 | 55.00000 | -4.96150 | .01000 | -.00980 | -.00150 |
| .901 | .833 | .00310 | .01500 | -.00560 | .01940 | 55.00000 | -4.94650 | .01000 | -.00980 | -.00150 |
| .900 | 3.474 | .00460 | .01290 | -.00780 | .01940 | 55.00000 | -4.94650 | .00580 | -.00980 | -.00580 |
| .902 | 6.033 | .02850 | .01500 | -.00560 | .01940 | 55.00000 | -4.93900 | .01000 | -.00980 | -.00150 |
| .899 | 8.150 | .02350 | .01500 | -.00560 | .00970 | 55.00000 | -4.93150 | .01000 | -.00980 | -.00150 |
| .903 | 9.146 | .02320 | .01500 | -.00560 | .00970 | 55.00000 | -4.93900 | .01000 | -.00980 | -.00150 |
| .901 | 11.171 | .02580 | .01500 | -.00560 | .01940 | 55.00000 | -4.94650 | .01000 | -.00980 | -.00150 |
| .901 | 13.188 | .02370 | .01500 | -.00560 | .01940 | 55.00000 | -4.95400 | .01000 | -.00980 | -.00150 |
| .901 | 16.220 | .05400 | .01710 | -.00350 | .01940 | 55.00000 | -4.96150 | .01430 | -.00980 | -.00270 |
| | GRADIENT | .00409 | -.00023 | -.00024 | .00133 | -.00000 | .00205 | -.00046 | .00000 | -.00047 |

BETA = .000
 AILRON = .000
 SPDBRK = 55.000
 RUDDER = 5.000
 RN/L =

RUN NO. 561/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|--------|---------|--------|----------|----------|--------|---------|---------|
| .951 | -5.108 | -.03650 | .01290 | -.00780 | .00970 | 55.00000 | -4.93900 | .00580 | -.00980 | -.00580 |
| .948 | .070 | -.00370 | .01500 | -.00560 | .01940 | 55.00000 | -4.93900 | .01000 | -.00980 | -.00150 |
| .949 | 2.460 | .00370 | .01500 | -.00560 | .01940 | 55.00000 | -4.93900 | .01000 | -.00980 | -.00150 |
| .950 | 5.039 | .03960 | .01500 | -.00560 | .01940 | 55.00000 | -4.93900 | .01000 | -.00980 | -.00150 |
| .950 | 7.116 | .02600 | .01500 | -.00560 | .01940 | 55.00000 | -4.93900 | .00580 | -.00980 | -.00580 |
| .950 | 8.149 | .02320 | .01290 | -.00780 | .01940 | 55.00000 | -4.93900 | .00580 | -.00980 | -.00580 |
| .950 | 10.201 | .02230 | .01290 | -.00780 | .00970 | 55.00000 | -4.93900 | .00580 | -.00980 | -.00580 |
| .950 | 12.226 | .02140 | .01290 | -.00780 | .00970 | 55.00000 | -4.93900 | .00580 | -.00980 | -.00580 |
| .950 | 15.248 | .03310 | .01290 | -.00780 | .01940 | 55.00000 | -4.93900 | .00580 | -.00980 | -.00580 |
| | GRADIENT | .00292 | .00000 | -.00000 | .00000 | .00000 | -.00000 | .00000 | .00000 | -.00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1164

AMES 118-1-11 OAI45A 01

(C2F0A8) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BOFLAP = .000
SPOBRK = 55.000 RUDDER = -5.000
RN/L = 5.000

RUN NO. 548/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-08 | AIL-08 | AIL-18 | AIL-08 |
|-------|----------|---------|---------|---------|---------|----------|----------|---------|---------|---------|---------|
| 1.201 | -4.121 | -.03400 | .02500 | -.00710 | .00970 | 55.00000 | -4.95400 | .03000 | -.00980 | -.00980 | -.00450 |
| 1.198 | .920 | .00140 | .02000 | -.00640 | .00000 | 55.00000 | -4.95400 | .02000 | -.00980 | -.00980 | -.00300 |
| 1.197 | 3.489 | .00250 | .02000 | -.00640 | .00000 | 55.00000 | -4.95400 | .02000 | -.00980 | -.00980 | -.00300 |
| 1.197 | 6.139 | .02540 | .02290 | -.00930 | .00000 | 55.00000 | -4.95400 | .02580 | -.00980 | -.00980 | -.00880 |
| 1.195 | 8.162 | .01970 | .01790 | -.00850 | .00000 | 55.00000 | -4.94650 | .01580 | -.00980 | -.00980 | -.00730 |
| 1.197 | 9.173 | .01830 | .01500 | -.00560 | .01940 | 55.00000 | -4.94650 | .01000 | -.00980 | -.00980 | -.00150 |
| 1.202 | 10.302 | .02150 | .02000 | -.00640 | .01940 | 55.00000 | -4.93900 | .02000 | -.00980 | -.00980 | -.00300 |
| 1.190 | 12.258 | .01660 | .02000 | -.00640 | .01940 | 55.00000 | -4.93900 | .02000 | -.00980 | -.00980 | -.00300 |
| 1.201 | 15.308 | .01710 | .01790 | -.00850 | .01940 | 55.00000 | -4.93900 | .01580 | -.00980 | -.00980 | -.00730 |
| | GRADIENT | .00511 | -.00070 | .00010 | -.00135 | .00000 | -.00000 | -.00141 | .00000 | .00000 | .00021 |

RUN NO. 532/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-08 | AIL-08 | AIL-18 | AIL-08 |
|-------|----------|---------|--------|---------|---------|----------|----------|--------|--------|--------|---------|
| 1.297 | -5.122 | -.03750 | .01300 | .00150 | .00000 | 55.00000 | -5.32860 | .01580 | .01020 | .01020 | -.00730 |
| 1.300 | -.086 | .00060 | .00830 | -.00320 | .00000 | 55.00000 | -5.32860 | .00510 | .00510 | .00510 | -.01150 |
| 1.298 | 2.488 | .00570 | .00830 | -.00320 | .00000 | 55.00000 | -5.45560 | .01150 | .00510 | .00510 | -.01150 |
| 1.298 | 5.125 | .03360 | .00830 | -.00320 | .00000 | 55.00000 | -5.48880 | .01150 | .00510 | .00510 | -.01150 |
| 1.294 | 5.709 | .03280 | .00830 | -.00320 | -.01000 | 55.00000 | -5.47780 | .01150 | .00510 | .00510 | -.01150 |
| 1.296 | 7.165 | .02660 | .00830 | -.00320 | .00000 | 55.00000 | -5.46670 | .01150 | .01020 | .01020 | -.01150 |
| 1.296 | 8.157 | .01870 | .01080 | -.00070 | .00000 | 55.00000 | -5.46670 | .01150 | .00510 | .00510 | -.01150 |
| 1.295 | 10.201 | .01880 | .00830 | -.00320 | .00000 | 55.00000 | -5.46670 | .01150 | .00510 | .00510 | -.01150 |
| 1.293 | 12.260 | .02040 | .00830 | -.00320 | .00000 | 55.00000 | -5.46670 | .01150 | .00000 | .00000 | -.01150 |
| 1.294 | 15.291 | .02170 | .00580 | -.00580 | -.01000 | 55.00000 | -5.46670 | .00000 | .00000 | .00000 | .00000 |
| | GRADIENT | .00198 | .00000 | .00000 | .00000 | .00000 | -.04934 | .00000 | .00000 | .00000 | .00000 |

RUN NO. 515/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-08 | AIL-08 | AIL-18 | AIL-08 |
|-------|--------|---------|--------|---------|---------|----------|----------|--------|--------|--------|---------|
| 1.404 | -5.118 | -.02690 | .01750 | -.00390 | .00000 | 55.00000 | -5.36600 | .02000 | .00480 | .00480 | -.00300 |
| 1.410 | .107 | .00460 | .01290 | -.00360 | -.02000 | 55.00000 | -5.36600 | .01580 | .00010 | .00010 | -.00730 |
| 1.404 | 2.643 | .00580 | .01540 | -.00100 | .00000 | 55.00000 | -5.36600 | .01580 | .00520 | .00520 | -.00730 |
| 1.401 | 5.104 | .03410 | .01290 | -.00360 | .00000 | 55.00000 | -5.36600 | .01580 | .00010 | .00010 | -.00730 |
| 1.401 | 7.150 | .02390 | .01080 | -.00570 | -.01000 | 55.00000 | -5.35850 | .01150 | .00010 | .00010 | -.01150 |
| 1.400 | 8.172 | .02050 | .01080 | -.00570 | -.01000 | 55.00000 | -5.35850 | .01150 | .00010 | .00010 | -.01150 |
| 1.400 | 10.241 | .01890 | .01290 | -.00360 | .00000 | 55.00000 | -5.35850 | .01580 | .00010 | .00010 | -.00730 |
| 1.398 | 12.248 | .01770 | .01080 | -.00570 | .00000 | 55.00000 | -5.35100 | .01150 | .00010 | .00010 | -.01150 |
| 1.397 | 15.282 | .01900 | .01290 | -.00360 | .00000 | 55.00000 | -5.34350 | .01580 | .00010 | .00010 | -.00730 |
| 1.392 | | .00047 | .00099 | .00103 | .00789 | -.00000 | .00000 | .00000 | .00201 | .00201 | .00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1165

AMES 118-1-11 OAI45A 01

(C2F0A9) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 55.000 RUDDER = -5.000
 RN/L = 5.000

RUN NO. 587/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-08 | AIL-1B | AIL-0B |
|------|----------|---------|--------|---------|--------|----------|----------|---------|---------|---------|
| .598 | -6.022 | 5.12700 | .01420 | -.00060 | .00000 | 55.00000 | -4.90910 | .00850 | -.00980 | .00850 |
| .598 | -1.928 | 5.09980 | .01420 | -.00060 | .00000 | 55.00000 | -4.94650 | .00850 | -.00980 | .00850 |
| .599 | -.889 | 5.06390 | .01710 | -.00350 | .00000 | 55.00000 | -4.93900 | .01430 | -.00980 | .00270 |
| .598 | .031 | 5.00370 | .01710 | -.00350 | .00000 | 55.00000 | -4.95400 | .01430 | -.00980 | .00270 |
| .598 | .503 | 5.14800 | .01710 | -.00350 | .00000 | 55.00000 | -4.93900 | .01430 | -.00980 | .00270 |
| .598 | 1.037 | 5.15900 | .01420 | -.00060 | .00000 | 55.00000 | -4.93900 | .00850 | -.00980 | .00850 |
| .598 | 2.104 | 5.15900 | .01670 | -.00310 | .00000 | 55.00000 | -4.96900 | .00850 | -.01470 | .00850 |
| .597 | 3.144 | 5.13910 | .01460 | -.00520 | .00000 | 55.00000 | -4.96150 | .00430 | -.01470 | .00430 |
| .597 | 4.175 | 5.13630 | .01960 | -.00600 | .00000 | 55.00000 | -4.96150 | .01430 | -.01470 | .00270 |
| .597 | 6.227 | 5.12400 | .01750 | -.00810 | .00000 | 55.00000 | -4.97650 | .01000 | -.01470 | -.00150 |
| | GRADIENT | .01376 | .00036 | -.00067 | .00000 | .00000 | -.00391 | -.00036 | -.00107 | -.00025 |

RUN NO. 581/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-08 | AIL-1B | AIL-0B |
|------|----------|---------|--------|---------|---------|----------|----------|--------|---------|---------|
| .797 | -6.133 | 5.17990 | .01500 | -.00560 | .00970 | 55.00000 | -4.85670 | .01000 | -.00980 | -.00150 |
| .797 | -2.024 | 5.17290 | .01500 | -.00560 | .00000 | 55.00000 | -4.88660 | .01000 | -.00980 | -.00150 |
| .799 | -.993 | 5.14410 | .01500 | -.00560 | .00000 | 55.00000 | -4.90160 | .01000 | -.00980 | -.00150 |
| .799 | .079 | 4.89040 | .01500 | -.00560 | .00000 | 55.00000 | -4.91660 | .01000 | -.00980 | -.00150 |
| .799 | .521 | 5.10390 | .01500 | -.00560 | .00970 | 55.00000 | -4.94650 | .01000 | -.00980 | -.00150 |
| .798 | 1.036 | 5.16930 | .01500 | -.00560 | .00000 | 55.00000 | -4.95400 | .01000 | -.00980 | -.00150 |
| .799 | 2.111 | 5.17130 | .01500 | -.00560 | .00000 | 55.00000 | -4.95400 | .01000 | -.00980 | -.00150 |
| .799 | 3.155 | 5.15330 | .01500 | -.00560 | .00000 | 55.00000 | -4.98400 | .01000 | -.00980 | -.00150 |
| .800 | 4.186 | 5.15360 | .01500 | -.00560 | .00000 | 55.00000 | -4.98400 | .01000 | -.00980 | -.00150 |
| .801 | 6.365 | 5.01910 | .01500 | -.00560 | .00000 | 55.00000 | -5.01390 | .01000 | -.00980 | -.00150 |
| | GRADIENT | .01823 | .00000 | -.00000 | -.00016 | -.00000 | -.01679 | .00000 | -.00000 | -.00000 |

RUN NO. 565/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-08 | AIL-1B | AIL-0B |
|------|----------|---------|---------|---------|---------|----------|----------|--------|---------|---------|
| .901 | -6.097 | 5.94970 | .01500 | -.00560 | .00970 | 55.00000 | -4.87910 | .01000 | -.00980 | -.00150 |
| .900 | -1.960 | 6.05770 | .01500 | -.00560 | .01940 | 55.00000 | -4.94650 | .01000 | -.00980 | -.00150 |
| .900 | -.926 | 6.01210 | .01500 | -.00560 | .01940 | 55.00000 | -4.96150 | .01000 | -.00980 | -.00150 |
| .901 | .039 | 5.98860 | .01500 | -.00560 | .01940 | 55.00000 | -4.96900 | .01000 | -.00980 | -.00150 |
| .901 | .506 | 6.02210 | .01750 | -.00810 | .00970 | 55.00000 | -4.96150 | .01000 | -.01470 | -.00150 |
| .900 | 1.039 | 6.08650 | .01500 | -.00560 | .00970 | 55.00000 | -4.97650 | .01000 | -.00980 | -.00150 |
| .899 | 2.110 | 6.11750 | .01500 | -.00560 | .01940 | 55.00000 | -4.97650 | .01000 | -.00980 | -.00150 |
| .899 | 3.165 | 6.12850 | .01500 | -.00560 | .01940 | 55.00000 | -4.99150 | .01000 | -.00980 | -.00150 |
| .898 | 4.224 | 6.12940 | .01500 | -.00560 | .00970 | 55.00000 | -4.98400 | .01000 | -.00980 | -.00150 |
| .898 | 6.299 | 6.12220 | .01750 | -.00810 | .01940 | 55.00000 | -4.94650 | .01000 | -.01470 | -.00150 |
| | GRADIENT | .02074 | -.00004 | .00004 | -.00087 | -.00000 | -.00635 | .00000 | .00008 | -.00000 |

AMES 118-1-11 0A145A 01

(C2FQA9) (08 JUL 77)

REFERENCE DATA

| | | |
|-------|---|-----------|
| SREF | = | 2690.0000 |
| LREF | = | 474.8100 |
| BREF | = | 936.6800 |
| SCALE | = | .0500 |

| | | | | | | |
|---------|--------|--------|------|---------------------|--------|------|
| RMN NO. | 557/ 0 | RN/L = | 4.98 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|---------|--------|--------|------|---------------------|--------|------|

| MACH | BETA | ALPHA | ELEVON | AIRLON | BOFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIR-1B | AIR-0B |
|------|----------|---------|--------|---------|--------|----------|----------|--------|---------|---------|---------|
| .950 | -6.112 | 4.96170 | .01790 | -.00850 | .00970 | 55.00000 | -4.93900 | .02000 | .01580 | -.00980 | -.00730 |
| .951 | -1.965 | 4.97050 | .01790 | -.00850 | .00970 | 55.00000 | -4.95400 | .02000 | .01580 | -.00980 | -.00730 |
| .947 | -.917 | 4.95870 | .01790 | -.00850 | .00000 | 55.00000 | -4.95400 | .02000 | .01000 | -.00980 | -.00730 |
| .950 | .157 | 4.99140 | .01500 | -.00560 | .00970 | 55.00000 | -4.95400 | .02000 | .01000 | -.00980 | -.00150 |
| .949 | .638 | 4.99320 | .01500 | -.00560 | .00970 | 55.00000 | -4.95400 | .02000 | .02000 | -.00980 | -.00300 |
| .950 | 1.160 | 4.95950 | .02000 | -.00640 | .00970 | 55.00000 | -4.96150 | .02000 | .01430 | -.00980 | -.00270 |
| .948 | 2.214 | 4.92860 | .01710 | -.00350 | .00970 | 55.00000 | -4.96150 | .02490 | .01430 | -.01470 | -.00270 |
| .948 | 3.258 | 4.91010 | .01960 | -.00600 | .00970 | 55.00000 | -4.96150 | .02000 | .01430 | -.00980 | -.00270 |
| .940 | 4.295 | 4.80540 | .01710 | -.00350 | .00970 | 55.00000 | -4.94650 | .02490 | .01430 | -.01470 | -.00300 |
| .947 | 6.367 | 4.80430 | .02250 | -.00000 | .00970 | 55.00000 | -4.94650 | .02490 | .01430 | -.01470 | -.00300 |
| | GRADIENT | -.01380 | .00014 | -.00075 | .00064 | .00000 | -.00236 | .00034 | -.00004 | -.00034 | -.00184 |

GRADIENT

| | | | | | | | | | |
|---------|--------|------|---|------|----------|----------|---|--------|------|
| DATA NO | 530/ 0 | BN/1 | = | 4.97 | GRADIENT | INTERVAL | = | -5.00/ | 5.00 |
|---------|--------|------|---|------|----------|----------|---|--------|------|

| MACH | BETA | ALPHA | ELEVON | AIRLON | BOFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIRL-1B | AIRL-0B |
|----------|--------|---------|--------|---------|--------|----------|----------|---------|--------|---------|---------|
| 1.201 | -6.113 | 5.22630 | .01450 | -.01070 | .01940 | 55.00000 | -5.02890 | .01980 | .01000 | -.01980 | -.00150 |
| 1.199 | -1.946 | 5.19460 | .01250 | -.00740 | .01940 | 55.00000 | -5.05890 | .02490 | .00000 | -.01470 | .00000 |
| 1.199 | -.910 | 5.18070 | .01250 | -.00740 | .01940 | 55.00000 | -4.93900 | .02490 | .00000 | -.01470 | .00000 |
| 1.199 | .034 | 5.16640 | .01280 | -.01280 | .01940 | 55.00000 | -4.94650 | .02490 | .00070 | -.01470 | -.01080 |
| 1.201 | .590 | 5.24590 | .01960 | -.00600 | .01940 | 55.00000 | -4.94650 | .02490 | .01430 | -.01470 | .00270 |
| 1.199 | 1.075 | 5.29480 | .01960 | -.00600 | .01940 | 55.00000 | -4.95400 | .02490 | .01430 | -.01470 | .00270 |
| 1.200 | 2.143 | 5.26970 | .02170 | -.00390 | .01940 | 55.00000 | -4.95400 | .02490 | .01850 | -.01470 | .00700 |
| 1.201 | 3.187 | 5.25470 | .02380 | -.00170 | .01940 | 55.00000 | -4.96150 | .02490 | .02280 | -.01470 | .011200 |
| 1.201 | 4.231 | 5.25800 | .02340 | -.00220 | .01940 | 55.00000 | -4.96150 | .01980 | .02700 | -.01980 | .01550 |
| 1.201 | 6.325 | 5.25930 | .01920 | -.00640 | .01940 | 55.00000 | -4.97650 | .01980 | .01850 | -.01980 | .007000 |
| GRADIENT | .01492 | .00219 | .00125 | .00125 | .00000 | .00000 | .00782 | -.00054 | .00494 | -.00054 | .00303 |

GRADIENT

| | | | | | | |
|---------|---------|--------|------|---------------------|---------|------|
| RUN NO. | 531 / 0 | RN/L = | 5.02 | GRADIENT INTERVAL = | -5.00 / | 5.00 |
|---------|---------|--------|------|---------------------|---------|------|

| MACH | BETA | ALPHA | ELEVON | AILTRON | EDFLAP | SPDBRK | RUDDER | ELV-1B | AIL-1B | AIL-0B |
|-------|----------|---------|--------|---------|--------|----------|----------|--------|--------|----------|
| 1.298 | -6.075 | 5.08920 | .00830 | -.00320 | .00000 | 55.00000 | -5.40350 | .00510 | .00510 | -.011500 |
| 1.300 | -1.952 | 5.06590 | .00830 | -.00320 | .00000 | 55.00000 | -5.43350 | .00510 | .00510 | -.011500 |
| 1.298 | -.907 | 5.05150 | .00830 | -.00320 | .00000 | 55.00000 | -5.45560 | .00510 | .00510 | -.011500 |
| 1.297 | -.169 | 5.09280 | .00830 | -.00320 | .00000 | 55.00000 | -5.48880 | .00510 | .00510 | -.011500 |
| 1.298 | .639 | 5.06190 | .00830 | -.00320 | .00000 | 55.00000 | -5.49990 | .00510 | .00510 | -.011500 |
| 1.298 | 1.165 | 5.06040 | .00830 | -.00320 | .00000 | 55.00000 | -5.49990 | .00510 | .00510 | -.011500 |
| 1.296 | 2.220 | 5.04030 | .01250 | .00100 | .00000 | 55.00000 | -5.52210 | .00510 | .00510 | -.003000 |
| 1.298 | 3.264 | 5.02480 | .00830 | -.00320 | .00000 | 55.00000 | -5.55530 | .00510 | .00510 | -.011500 |
| 1.296 | 4.303 | 5.01890 | .00830 | -.00320 | .00000 | 55.00000 | -5.59360 | .00510 | .00510 | -.011500 |
| 1.294 | 6.377 | 4.99400 | .00830 | -.00320 | .00000 | 55.00000 | -5.34350 | .00510 | .00510 | -.011500 |
| | GRADIENT | -.00854 | .00015 | .00015 | .00000 | -.00000 | -.02499 | .00031 | .00000 | .00031 |

GRADIENT

PARAMETRIC DATA

| | | | | | |
|--------|---|--------|--------|---|--------|
| ALPHA | = | 5.000 | ELEVON | = | .000 |
| AILRON | = | .000 | BDFLAP | = | .000 |
| SPOBRK | = | 55.000 | RUDDER | = | -5.000 |
| RN/L | = | 5.000 | | | |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(CZF0A9) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 516/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-08 | AIL-08 |
|-------|----------|---------|--------|--------|---------|----------|----------|--------|--------|---------|
| 1.406 | -6.112 | 5.13210 | .01970 | .00320 | -.01000 | 55.00000 | -5.35100 | .02430 | .00520 | .00120 |
| 1.403 | -1.961 | 5.12510 | .01970 | .00320 | -.02000 | 55.00000 | -5.41100 | .02430 | .00520 | .00120 |
| 1.404 | -.916 | 5.10890 | .01720 | .00570 | -.02000 | 55.00000 | -5.45560 | .02430 | .00520 | .00120 |
| 1.403 | .140 | 5.06510 | .01970 | .00320 | -.02000 | 55.00000 | -5.47780 | .02430 | .00520 | .00120 |
| 1.402 | .677 | 5.13710 | .01970 | .00320 | -.02000 | 55.00000 | -5.47780 | .02430 | .00520 | .00120 |
| 1.403 | 1.175 | 5.11290 | .01720 | .00570 | -.02000 | 55.00000 | -5.51100 | .02430 | .00520 | .00120 |
| 1.403 | 2.223 | 5.09000 | .01720 | .00570 | -.02000 | 55.00000 | -5.55530 | .02430 | .00520 | .00120 |
| 1.404 | 3.265 | 5.07100 | .02180 | .00540 | .00000 | 55.00000 | -5.58950 | .02850 | .00520 | .00550 |
| 1.404 | 4.316 | 5.06040 | .02150 | .01000 | .00000 | 55.00000 | -5.63280 | .03280 | .01020 | .00970 |
| 1.402 | 6.407 | 5.03420 | .01300 | .00150 | -.01000 | 55.00000 | -5.33600 | .01560 | .01020 | -.00730 |
| 1.400 | GRADIENT | -.00898 | .00040 | .00079 | .00419 | .00000 | -.03479 | .00118 | .00038 | .00118 |

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AMES 118-1-11 OAI45A 01

(CZF080) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 588/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-08 | AIL-08 |
|------|----------|---------|--------|---------|--------|----------|-----------|--------|---------|---------|
| .598 | -5.996 | 5.11360 | .01670 | -.00310 | .00000 | 55.00000 | -22.73100 | .00850 | -.01470 | .00850 |
| .598 | -1.902 | 5.08310 | .01750 | -.00810 | .00000 | 55.00000 | -22.73900 | .01000 | -.01470 | -.00150 |
| .597 | -.865 | 5.04850 | .01750 | -.00810 | .00000 | 55.00000 | -22.73100 | .01000 | -.01470 | -.00150 |
| .599 | .043 | 5.00020 | .01750 | -.00810 | .00000 | 55.00000 | -22.73900 | .01000 | -.01470 | -.00150 |
| .598 | .528 | 5.15740 | .01750 | -.00810 | .00000 | 55.00000 | -22.73900 | .01000 | -.01470 | -.00150 |
| .598 | 1.061 | 5.17880 | .01750 | -.00810 | .00000 | 55.00000 | -22.73900 | .01000 | -.01470 | -.00150 |
| .598 | 2.130 | 5.17930 | .01750 | -.00810 | .00000 | 55.00000 | -22.73900 | .01000 | -.01470 | -.00150 |
| .598 | 3.170 | 5.16200 | .01750 | -.00810 | .00000 | 55.00000 | -22.73900 | .01000 | -.01470 | -.00150 |
| .598 | 4.193 | 5.15720 | .01750 | -.00810 | .00000 | 55.00000 | -22.73900 | .01000 | -.01470 | -.00150 |
| .598 | 6.244 | 5.14590 | .01750 | -.00810 | .00000 | 55.00000 | -22.73900 | .01000 | -.01470 | -.00150 |
| .596 | GRADIENT | .02115 | .00000 | -.00000 | .00000 | .00000 | -.00052 | .00000 | -.00000 | -.00000 |

PARAMETRIC DATA

ALPHA = 5.000
 AILRON = .000
 SPDBRK = 55.000
 RN/L = 5.000
 ELEVON = .000
 BDFLAP = .000
 RUDDER = -22.800

PARAMETRIC DATA

ALPHA = 5.000
 AILRON = .000
 SPDBRK = 55.000
 RN/L = 5.000
 ELEVON = .000
 BDFLAP = .000
 RUDDER = -22.800

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(CFP080) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 55.000 RUDDER = -22.800
 RN/L = 5.000

RUN NO. 566/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-1B | AIL-08 |
|------|----------|---------|--------|---------|--------|----------|-----------|--------|---------|---------|
| .900 | -6.112 | 4.91820 | .01500 | -.00560 | .01940 | 55.00000 | -22.76400 | .01000 | -.00980 | -.00150 |
| .900 | -1.916 | 4.89650 | .01500 | -.00560 | .00970 | 55.00000 | -22.76400 | .01000 | -.00980 | -.00150 |
| .900 | -.870 | 4.88540 | .01750 | -.00810 | .00970 | 55.00000 | -22.77200 | .01000 | -.01470 | -.00150 |
| .900 | .189 | 4.91950 | .01750 | -.00810 | .01940 | 55.00000 | -22.75600 | .01000 | -.01470 | -.00150 |
| .900 | .673 | 4.90490 | .01750 | -.00810 | .00970 | 55.00000 | -22.73100 | .01000 | -.01470 | -.00150 |
| .900 | 1.193 | 4.89050 | .01750 | -.00810 | .01940 | 55.00000 | -22.73100 | .01000 | -.01470 | -.00150 |
| .900 | 2.244 | 4.86780 | .01990 | -.01060 | .01940 | 55.00000 | -22.73900 | .01000 | -.01970 | -.00150 |
| .898 | 3.286 | 4.84800 | .01990 | -.01060 | .00990 | 55.00000 | -22.73900 | .01000 | -.01970 | -.00150 |
| .898 | 4.323 | 4.83420 | .01990 | -.01060 | .01940 | 55.00000 | -22.73900 | .01000 | -.01970 | -.00150 |
| .895 | 6.391 | 4.79960 | .02210 | -.00850 | .01940 | 55.00000 | -22.73900 | .01430 | -.01970 | -.00270 |
| | GRADIENT | -.01109 | .00076 | -.00078 | .00176 | -.00000 | .00511 | .00000 | -.00155 | -.00000 |

RUN NO. 540/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-1B | AIL-08 |
|-------|----------|---------|--------|---------|--------|----------|-----------|--------|---------|---------|
| 1.201 | -6.095 | 5.24100 | .01280 | -.01280 | .01940 | 55.00000 | -22.75600 | .00580 | -.01980 | -.00580 |
| 1.202 | -1.922 | 5.21050 | .01490 | -.01070 | .01940 | 55.00000 | -22.76400 | .01000 | -.01980 | -.00150 |
| 1.202 | -.885 | 5.19410 | .01490 | -.01070 | .01940 | 55.00000 | -22.76400 | .01000 | -.01980 | -.00150 |
| 1.203 | .041 | 5.14800 | .01490 | -.01070 | .01940 | 55.00000 | -22.70700 | .01000 | -.01980 | -.00150 |
| 1.203 | .604 | 5.31460 | .01490 | -.01070 | .01940 | 55.00000 | -22.70700 | .01000 | -.01980 | -.00150 |
| 1.202 | 1.099 | 5.27020 | .01490 | -.01070 | .01940 | 55.00000 | -22.73900 | .01000 | -.01980 | -.00150 |
| 1.201 | 2.161 | 5.23340 | .01960 | -.00600 | .01940 | 55.00000 | -22.73900 | .01430 | -.01470 | -.00270 |
| 1.203 | 3.201 | 5.22870 | .02600 | .00040 | .01940 | 55.00000 | -22.73900 | .02700 | -.01470 | .01550 |
| 1.203 | 4.243 | 5.23330 | .02950 | .00960 | .01940 | 55.00000 | -22.74700 | .03400 | -.01470 | .03400 |
| 1.199 | 6.336 | 5.23510 | .01420 | -.00570 | .01940 | 55.00000 | -22.74700 | .00850 | -.01980 | .00850 |
| | GRADIENT | .00623 | .00252 | .00312 | .00000 | .00000 | .00169 | .00393 | .00109 | .00514 |

RUN NO. 517/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-1B | AIL-08 |
|-------|----------|---------|--------|---------|--------|----------|-----------|--------|---------|---------|
| 1.403 | -6.102 | 5.07470 | .01000 | -.00150 | .00000 | 55.00000 | -22.82900 | .02000 | .00000 | -.00300 |
| 1.404 | -1.942 | 5.05870 | .01000 | -.00150 | .00000 | 55.00000 | -22.82900 | .02000 | .00000 | -.00300 |
| 1.404 | -.895 | 5.04560 | .01250 | -.00400 | .00000 | 55.00000 | -22.82900 | .02000 | -.00500 | -.00300 |
| 1.404 | .180 | 5.08290 | .01250 | -.00400 | .00000 | 55.00000 | -22.82900 | .02000 | -.00500 | -.00300 |
| 1.404 | .661 | 5.07270 | .01250 | -.00400 | .00000 | 55.00000 | -22.82900 | .02000 | -.00500 | -.00300 |
| 1.402 | 1.182 | 5.05930 | .01000 | -.00150 | .00000 | 55.00000 | -22.82900 | .02000 | .00000 | -.00300 |
| 1.402 | 2.233 | 5.03630 | .01250 | -.00400 | .00000 | 55.00000 | -22.82900 | .02000 | -.00500 | -.00300 |
| 1.402 | 3.281 | 5.02210 | .01460 | -.00190 | .00000 | 55.00000 | -22.82900 | .02430 | -.00500 | -.00120 |
| 1.402 | 4.328 | 5.01040 | .01670 | .00030 | .00000 | 55.00000 | -22.83700 | .02850 | -.00500 | .00550 |
| 1.402 | 6.414 | 4.98400 | .02780 | .01130 | .00000 | 55.00000 | -22.83700 | .04550 | .00010 | .02250 |
| 1.402 | GRADIENT | -.00842 | .00083 | .00035 | .00000 | .00000 | -.00083 | .00119 | -.00049 | .00118 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(C2F081) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000
 AILRON = .000
 SPOBRK = 70.000
 RUDDER = 5.000
 ELEVON = .000
 BDFLAP = .000
 RUDDER = .000

RUN NO. 753/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|---------|--------|----------|---------|--------|---------|--------|
| .597 | -5.037 | -.03030 | .00500 | -.00500 | .00000 | 70.00000 | -.11640 | .00000 | -.00990 | .00000 |
| .600 | -.088 | .00000 | .00500 | -.00500 | .00000 | 70.00000 | -.11640 | .00000 | -.00990 | .00000 |
| .599 | 2.394 | .00240 | .00500 | -.00500 | .00000 | 70.00000 | -.11640 | .00000 | -.00990 | .00000 |
| .597 | 4.864 | .03440 | .00500 | -.00500 | .00000 | 70.00000 | -.11640 | .00000 | -.00990 | .00000 |
| .598 | 6.938 | .03150 | .00500 | -.00500 | .00000 | 70.00000 | -.11640 | .00000 | -.00990 | .00000 |
| .597 | 7.964 | .02700 | .00500 | -.00500 | .00000 | 70.00000 | -.10960 | .00000 | -.00990 | .00000 |
| .596 | 10.010 | .03250 | .00500 | -.00500 | .04850 | 70.00000 | -.11640 | .00000 | -.00990 | .00000 |
| .595 | 12.050 | .03470 | .00500 | -.00500 | .00000 | 70.00000 | -.10960 | .00000 | -.00990 | .00000 |
| .597 | 15.054 | .04520 | .00500 | -.00500 | .00000 | 70.00000 | -.11640 | .00000 | -.00990 | .00000 |
| | GRADIENT | .00694 | -.00000 | .00000 | .00000 | -.00000 | .00000 | .00000 | .00000 | .00000 |

RUN NO. 752/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|---------|--------|----------|---------|--------|---------|---------|
| .799 | -5.078 | -.03600 | .00500 | -.00500 | .00000 | 70.00000 | -.10290 | .00000 | -.00990 | .00000 |
| .803 | -.271 | -.00240 | .00500 | -.00500 | .00000 | 70.00000 | -.10290 | .00000 | -.00990 | .00000 |
| .800 | 2.417 | .00220 | .00500 | -.00500 | .00000 | 70.00000 | -.11640 | .00000 | -.00990 | .00000 |
| .798 | 4.893 | .03350 | .00500 | -.00500 | .00000 | 70.00000 | -.10290 | .00000 | -.00990 | .00000 |
| .798 | 6.970 | .02820 | .00500 | -.00500 | .00000 | 70.00000 | -.10290 | .00000 | -.00990 | .00000 |
| .798 | 8.022 | .01900 | -.00010 | -.01000 | .00000 | 70.00000 | -.10960 | .00000 | -.00990 | -.01010 |
| .798 | 10.044 | .02490 | .00500 | -.00500 | .00000 | 70.00000 | -.10960 | .00000 | -.00990 | .00000 |
| .799 | 12.085 | .03600 | .00500 | -.00500 | .00000 | 70.00000 | -.10960 | .00000 | -.00990 | .00000 |
| .799 | 15.069 | .03480 | .00500 | -.00500 | .00000 | 70.00000 | -.11640 | .00000 | -.00990 | .00000 |
| | GRADIENT | .00688 | -.00000 | .00000 | .00000 | -.00000 | -.00007 | .00000 | .00000 | .00000 |

RUN NO. 748/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|---------|--------|----------|---------|--------|---------|--------|
| .900 | -5.085 | -.03850 | .01580 | -.00560 | .00970 | 70.00000 | -.09620 | .01150 | .00030 | .01150 |
| .901 | -.083 | -.00180 | .01580 | -.00560 | .01940 | 70.00000 | -.09620 | .01150 | .00030 | .01150 |
| .900 | 2.424 | .00330 | .01580 | -.00560 | .01940 | 70.00000 | -.08940 | .01150 | .00030 | .01150 |
| .899 | 5.029 | .03150 | .01580 | -.00560 | .00970 | 70.00000 | -.08940 | .01150 | .00030 | .01150 |
| .898 | 5.672 | .03210 | .01580 | -.00560 | .01940 | 70.00000 | -.08940 | .01150 | .00030 | .01150 |
| .900 | 7.021 | .02230 | .01580 | -.00560 | .00970 | 70.00000 | -.08270 | .01150 | .00030 | .01150 |
| .900 | 8.079 | .02510 | .01040 | -.00530 | .00970 | 70.00000 | -.08940 | .00070 | .00030 | .01080 |
| .902 | 10.127 | .02400 | .01850 | .00860 | .00970 | 70.00000 | -.09620 | .01700 | .00300 | .01700 |
| .898 | 15.089 | .03120 | .02180 | .00030 | .00970 | 70.00000 | -.09620 | .02850 | -.00480 | .00550 |
| | GRADIENT | .00203 | -.00000 | .00000 | .00000 | .00000 | .00271 | .00000 | .00000 | .00000 |

0A145 TABULATED FORCE DATA

AMES 118-1-11 0A145A 01

DATE 10 MAR 80

(C2F081) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 70.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 743/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|--------|---------|---------|----------|---------|--------|--------|---------|---------|
| .951 | -5.076 | -.03640 | .02330 | -.00800 | .01940 | 70.00000 | -.09620 | .03510 | .01150 | -.00450 | -.01150 |
| .951 | -.060 | -.00150 | .02050 | -.00090 | .01940 | 70.00000 | -.09620 | .02520 | .01580 | .00540 | -.00730 |
| .952 | 2.508 | .00590 | .02580 | -.00630 | .00970 | 70.00000 | -.09620 | .03010 | .02150 | .00040 | -.01300 |
| .952 | 5.067 | .03550 | .02580 | -.00630 | .00970 | 70.00000 | -.09620 | .03010 | .02150 | .00040 | -.01300 |
| .949 | 7.105 | .02070 | .02010 | -.00050 | .00970 | 70.00000 | -.09620 | .03010 | .01000 | .00040 | -.00150 |
| .950 | 8.145 | .01610 | .01720 | .00230 | .00970 | 70.00000 | -.09620 | .03010 | .00430 | .00040 | .00430 |
| .951 | 10.190 | .01350 | .02080 | -.00550 | .00970 | 70.00000 | -.08270 | .03010 | .01150 | .00040 | -.01150 |
| .953 | 12.219 | .01620 | .01790 | -.00270 | .01940 | 70.00000 | -.08270 | .03010 | .00580 | .00470 | -.00580 |
| .952 | 15.255 | .02030 | .01540 | -.00520 | .01940 | 70.00000 | -.09620 | .02500 | .00580 | -.00470 | -.00580 |
| | GRADIENT | .00288 | .00206 | -.00210 | -.00378 | -.00000 | .00000 | .00191 | .00222 | -.00195 | -.00222 |

RUN NO. 742/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|---------|--------|---------|--------|----------|---------|---------|--------|---------|---------|
| 1.201 | -5.069 | -.04850 | .01120 | -.00610 | .01940 | 70.00000 | -.11640 | .00510 | .01730 | .00510 | -.01730 |
| 1.198 | -.067 | -.00960 | .00580 | -.00580 | .01940 | 70.00000 | -.11640 | .00000 | .01150 | .00000 | -.01150 |
| 1.202 | 2.495 | .01180 | .00580 | -.00580 | .01940 | 70.00000 | -.11640 | .00000 | .01150 | .00000 | -.01150 |
| 1.198 | 5.112 | .03090 | .00580 | -.00580 | .01940 | 70.00000 | -.11640 | .00000 | .01150 | .00000 | -.01150 |
| 1.199 | 7.154 | .01610 | .00580 | -.00580 | .01940 | 70.00000 | -.11640 | .00000 | .00580 | .00000 | -.00580 |
| 1.199 | 8.151 | .01670 | .00290 | -.00290 | .01940 | 70.00000 | -.11640 | .00000 | .01150 | .01010 | -.01150 |
| 1.199 | 10.197 | .01910 | .00070 | -.00070 | .01940 | 70.00000 | -.11640 | -.02020 | .01730 | .02020 | -.01730 |
| 1.199 | 12.207 | .01180 | .00150 | -.00150 | .01940 | 70.00000 | -.11640 | .02500 | .01580 | -.00470 | -.00730 |
| 1.201 | 15.232 | .01620 | .02040 | -.00600 | .01940 | 70.00000 | -.11640 | .00000 | .00000 | .00000 | .00000 |
| | GRADIENT | .00835 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 |

RUN NO. 735/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|---------|--------|---------|--------|----------|---------|---------|--------|---------|---------|
| 1.400 | -5.075 | -.06830 | .01250 | .01040 | .00970 | 70.00000 | -.08270 | -.00500 | .03000 | .02530 | -.00450 |
| 1.404 | -.026 | -.03070 | .01750 | -.00390 | .00970 | 70.00000 | -.08270 | .01500 | .02000 | -.00480 | -.00300 |
| 1.404 | .397 | -.02210 | .01750 | -.00390 | .00970 | 70.00000 | -.08270 | .01500 | .02000 | -.00480 | -.00300 |
| 1.402 | 2.487 | -.01610 | .01750 | -.00140 | .00970 | 70.00000 | -.08270 | .01000 | .02000 | .00010 | -.00300 |
| 1.399 | 5.073 | .02950 | .01500 | -.00140 | .00970 | 70.00000 | -.08270 | .01000 | .02000 | .00010 | -.00300 |
| 1.399 | 7.115 | .01210 | .01500 | -.00140 | .00970 | 70.00000 | -.08270 | .00510 | .02000 | .00510 | -.00300 |
| 1.399 | 8.148 | .00750 | .01250 | .00100 | .00970 | 70.00000 | -.08270 | .00510 | .02000 | .00510 | -.00300 |
| 1.400 | 10.206 | .00630 | .01250 | .00100 | .00970 | 70.00000 | -.08270 | .01000 | .02000 | .00510 | -.00300 |
| 1.397 | 12.194 | .00300 | .01500 | -.00140 | .00970 | 70.00000 | -.08270 | .00510 | .01580 | .00510 | -.00730 |
| 1.397 | 15.258 | .00110 | .01040 | -.00110 | .01940 | 70.00000 | -.08270 | .00510 | .00000 | .00510 | -.00000 |
| | GRADIENT | .00487 | .00000 | .00000 | .00000 | .00000 | .00103 | .00000 | .00000 | .00000 | .00000 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(C2F082) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPOBRK = 70.000 RUDDER = 5.000
RN/L =

RUN NO. 754/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-08 | AIL-08 |
|------|----------|---------|--------|---------|--------|----------|---------|--------|--------|
| .599 | -6.027 | 5.01930 | .00710 | -.00280 | .00000 | 70.00000 | -.09620 | .00430 | .00430 |
| .598 | -1.921 | 5.00340 | .00710 | -.00280 | .00000 | 70.00000 | -.10960 | .00430 | .00430 |
| .598 | -.885 | 4.97780 | .00710 | -.00280 | .00000 | 70.00000 | -.11640 | .00430 | .00430 |
| .599 | .111 | 4.86650 | .00710 | -.00280 | .00000 | 70.00000 | -.11640 | .00430 | .00430 |
| .597 | .613 | 4.99560 | .00710 | -.00280 | .00000 | 70.00000 | -.12310 | .00430 | .00430 |
| .598 | 1.131 | 5.02190 | .00710 | -.00280 | .00000 | 70.00000 | -.11640 | .00430 | .00430 |
| .598 | 2.176 | 5.00030 | .00710 | -.00280 | .00000 | 70.00000 | -.11640 | .00430 | .00430 |
| .598 | 3.211 | 4.98300 | .00710 | -.00280 | .00000 | 70.00000 | -.12310 | .00430 | .00430 |
| .597 | 4.243 | 4.96740 | .00710 | -.00280 | .00000 | 70.00000 | -.12310 | .00430 | .00430 |
| .597 | 6.312 | 4.93500 | .00710 | -.00280 | .00000 | 70.00000 | -.12310 | .00430 | .00430 |
| | GRADIENT | .00683 | .00000 | -.00000 | .00000 | .00000 | -.00177 | .00000 | .00000 |

RUN NO. 751/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-08 | AIL-08 |
|------|----------|---------|--------|---------|--------|----------|---------|--------|--------|
| .800 | -6.065 | 5.02920 | .00710 | -.00280 | .00000 | 70.00000 | -.10960 | .00430 | .00430 |
| .799 | -1.946 | 5.01740 | .00710 | -.00280 | .00000 | 70.00000 | -.11640 | .00430 | .00430 |
| .800 | -.905 | 4.99900 | .00710 | -.00280 | .00000 | 70.00000 | -.11640 | .00430 | .00430 |
| .799 | .118 | 4.81250 | .00710 | -.00280 | .00000 | 70.00000 | -.12310 | .00430 | .00430 |
| .799 | .639 | 5.00340 | .00710 | -.00280 | .00000 | 70.00000 | -.12310 | .00430 | .00430 |
| .799 | 1.159 | 5.03800 | .00710 | -.00280 | .00000 | 70.00000 | -.10290 | .00430 | .00430 |
| .799 | 2.195 | 5.01780 | .00710 | -.00280 | .00000 | 70.00000 | -.10960 | .00430 | .00430 |
| .798 | 3.240 | 5.00150 | .00710 | -.00280 | .00000 | 70.00000 | -.10960 | .00430 | .00430 |
| .799 | 4.277 | 4.98530 | .00710 | -.00280 | .00000 | 70.00000 | -.12310 | .00430 | .00430 |
| .797 | 6.353 | 4.95140 | .00710 | -.00280 | .00000 | 70.00000 | -.10290 | .00430 | .00430 |
| | GRADIENT | .00361 | .00000 | -.00000 | .00000 | .00000 | .00037 | .00000 | .00000 |

RUN NO. 749/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-08 | AIL-08 |
|------|----------|---------|--------|---------|---------|----------|---------|--------|---------|
| .901 | -6.087 | 5.03960 | .01000 | -.00570 | .00970 | 70.00000 | -.12310 | .01000 | .00150 |
| .901 | -1.955 | 5.03050 | .01000 | -.00570 | .00970 | 70.00000 | -.14110 | .01000 | .00150 |
| .900 | -.906 | 5.01590 | .01000 | -.00570 | .00970 | 70.00000 | -.15000 | .01000 | .00150 |
| .901 | .125 | 4.89300 | .00750 | -.00320 | .00970 | 70.00000 | -.15900 | .01000 | .00150 |
| .902 | .653 | 5.06000 | .01000 | -.00570 | .00970 | 70.00000 | -.15000 | .01000 | .00150 |
| .902 | 1.165 | 5.04500 | .01000 | -.00570 | .00970 | 70.00000 | -.15000 | .01000 | .00150 |
| .902 | 2.210 | 5.02510 | .01000 | -.00570 | .00970 | 70.00000 | -.11640 | .01000 | .00150 |
| .901 | 3.258 | 5.00950 | .01000 | -.00570 | .00970 | 70.00000 | -.12310 | .01000 | .00150 |
| .899 | 4.297 | 4.99260 | .01000 | -.00570 | .00970 | 70.00000 | -.12310 | .01000 | .00150 |
| .898 | 6.375 | 4.95930 | .01000 | -.00570 | .00970 | 70.00000 | -.15000 | .01000 | .00150 |
| | GRADIENT | -.00067 | .00008 | -.00008 | -.00097 | .00000 | .00530 | .00000 | -.00016 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1172

AMES 118-1-11 0A145A 01

(C2F082) (08 JUL 77)

REFERENCE DATA

| | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|--------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. ZO |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. ZO |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. ZO |
| SCALE | = | .0500 | | | | | |

PARAMETRIC DATA

| | | | | | |
|---------|---|--------|--------|---|------|
| ALPHA | = | 5.000 | ELEVON | = | .000 |
| ATLIRON | = | .000 | BDFLAP | = | .000 |
| SPOBRK | = | 70.000 | RUDDER | = | .000 |
| RN/L | = | 5.000 | | | |

| MACH | BETA | RUN NO. | 744/ 0 | RN/L = | 5.00 | GRADIENT INTERVAL = | -5.00/ | 5.00 | ELV-1B | ELV-0B | A1L-1B | A1L-0B |
|------|--------|---------|---------|--------|---------|---------------------|----------|---------|---------|--------|---------|---------|
| .952 | -6.142 | | ALPHA | ELEVON | A1LRON | BOFLAP | SPDRBK | RUDDER | | | | |
| .953 | -1.975 | | 5.12440 | .02080 | -.00550 | .01940 | 70.00000 | -.08940 | .03010 | .01150 | .00040 | -.01150 |
| .951 | -.932 | | 5.12310 | .02080 | -.00550 | .00970 | 70.00000 | -.09620 | .03010 | .01580 | .00040 | -.01150 |
| .950 | .137 | | 5.10510 | .02290 | -.00340 | .01940 | 70.00000 | -.10290 | .03010 | .01580 | .00040 | -.00730 |
| .951 | | | 4.96520 | .02290 | -.00340 | .01940 | 70.00000 | -.10290 | .03010 | .01580 | .00040 | -.00730 |
| .951 | .618 | | 4.90180 | .02290 | -.00340 | .01940 | 70.00000 | -.10290 | .03010 | .01580 | .00040 | -.00730 |
| .950 | 1.143 | | 4.90400 | .02290 | -.00340 | .01940 | 70.00000 | -.10290 | .03010 | .01580 | .00040 | -.00730 |
| .951 | 2.203 | | 4.90530 | .02040 | -.00600 | .01940 | 70.00000 | -.10290 | .02500 | .01580 | -.00470 | -.00730 |
| .950 | 3.252 | | 4.88620 | .02040 | -.00600 | .01940 | 70.00000 | -.10960 | .02500 | .01580 | -.00470 | -.00730 |
| .950 | 4.290 | | 4.87160 | .02040 | -.00600 | .01940 | 70.00000 | -.11640 | .02500 | .01580 | -.00470 | -.00730 |
| .949 | 6.362 | | 4.83630 | .02040 | -.00600 | .01940 | 70.00000 | -.13210 | .02500 | .01580 | -.00470 | -.00730 |
| | | | 4.81510 | .02040 | -.00600 | .01940 | 70.00000 | -.13210 | .02500 | .01580 | -.00470 | -.00730 |
| | | | | | -.00034 | .00097 | .00000 | -.00254 | -.00107 | .00043 | -.00107 | .00042 |

| MACH | BETA | RUN NO. | 741/ 0 | RN/L = | 5.04 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|-------|----------|---------|---------|---------|--------|---------------------|---------|---------|
| | | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-18 |
| 1.201 | -6.095 | 5.09120 | .00830 | -.00320 | .01940 | 70.00000 | -.10290 | .00511 |
| 1.201 | -1.954 | 5.06700 | .01040 | -.00110 | .01940 | 70.00000 | -.11640 | .00511 |
| 1.199 | - .905 | 5.05310 | .00750 | .00180 | .01940 | 70.00000 | -.11640 | .00511 |
| 1.198 | .147 | 5.09080 | .00750 | .00180 | .01940 | 70.00000 | -.11640 | .00511 |
| 1.198 | .625 | 5.07450 | .00750 | .00180 | .01940 | 70.00000 | -.11640 | .00511 |
| 1.201 | 1.147 | 5.03830 | .00970 | .00390 | .01940 | 70.00000 | -.11640 | .00511 |
| 1.199 | 2.202 | 5.02010 | .00710 | .00140 | .01940 | 70.00000 | -.12310 | .00000 |
| 1.198 | 3.253 | 5.00530 | .00290 | -.00290 | .01940 | 70.00000 | -.12310 | .00000 |
| 1.197 | 4.296 | 4.99490 | .00290 | -.00290 | .01940 | 70.00000 | -.13210 | .00000 |
| 1.198 | 6.366 | 4.97630 | .00500 | -.00080 | .01940 | 70.00000 | -.00117 | -.00100 |
| | GRADIENT | | -.01357 | -.00054 | .00000 | .00000 | | |

[illegible]

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1173

AMES 118-1-11 OAI45A 01

(C2F083) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = 70.000
 RN/L = 5.000

RUN NO. 756/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-08 | AIL-08 | AIL-08 |
|------|----------|---------|---------|--------|---------|--------|----------|---------|---------|---------|
| .597 | -14.970 | 4.88990 | .03830 | .00710 | -.00280 | .00000 | 70.00000 | .00430 | -.00990 | .00430 |
| .598 | -10.754 | 4.89030 | .03500 | .00710 | -.00280 | .00000 | 70.00000 | .00430 | -.00990 | .00430 |
| .598 | -4.939 | 4.89100 | .03040 | .00710 | -.00280 | .00000 | 70.00000 | .00430 | -.00990 | .00430 |
| .598 | -2.442 | 4.89230 | .02770 | .00710 | -.00280 | .00000 | 70.00000 | .00430 | -.00990 | .00430 |
| .598 | -.110 | 4.89240 | .02570 | .00710 | -.00280 | .00000 | 70.00000 | .00430 | -.00990 | .00430 |
| .597 | 2.522 | 4.89300 | .02310 | .00710 | -.00280 | .00000 | 70.00000 | .00430 | -.00990 | .00430 |
| .598 | 5.014 | 4.89400 | .02040 | .00710 | -.00280 | .00000 | 70.00000 | .00430 | -.00990 | .00430 |
| .598 | 10.027 | 4.89420 | .01620 | .00710 | -.00280 | .00000 | 70.00000 | .00430 | -.00990 | .00430 |
| .598 | 15.014 | 4.89460 | .01260 | .00710 | -.00280 | .00000 | 70.00000 | .00430 | -.00990 | .00430 |
| .598 | 18.134 | 4.89460 | .01060 | .00710 | -.00280 | .00000 | 70.00000 | .00430 | -.00990 | .00430 |
| | GRADIENT | .00025 | -.00097 | .00000 | .00000 | .00000 | .00000 | -.00000 | .00000 | -.00000 |

RUN NO. 747/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-08 | AIL-08 | AIL-08 |
|------|----------|---------|---------|--------|---------|--------|----------|--------|--------|--------|
| .902 | -14.993 | 4.90200 | .16440 | .01790 | -.00350 | .00970 | 70.00000 | .01580 | .00030 | .00730 |
| .901 | -10.754 | 4.90050 | .15150 | .01500 | -.00060 | .01940 | 70.00000 | .01000 | .00030 | .00150 |
| .901 | -4.954 | 4.90200 | .13760 | .01790 | -.00350 | .00970 | 70.00000 | .01580 | .00030 | .00730 |
| .900 | -2.434 | 4.90100 | .13160 | .01790 | -.00350 | .00970 | 70.00000 | .01580 | .00030 | .00730 |
| .901 | -.096 | 4.90090 | .12660 | .01790 | -.00350 | .01940 | 70.00000 | .01580 | .00030 | .00730 |
| .901 | 2.505 | 4.90440 | .11860 | .01790 | -.00350 | .00970 | 70.00000 | .01580 | .00030 | .00730 |
| .901 | 5.024 | 4.90330 | .11230 | .01790 | -.00350 | .00970 | 70.00000 | .01580 | .00030 | .00730 |
| .901 | 10.011 | 4.90550 | .09940 | .01790 | -.00350 | .00970 | 70.00000 | .01580 | .00030 | .00730 |
| .901 | 15.022 | 4.90610 | .09920 | .01580 | -.00560 | .00970 | 70.00000 | .01150 | .00030 | .00150 |
| .901 | 18.125 | 4.90750 | .08360 | .01580 | -.00560 | .00970 | 70.00000 | .01150 | .00030 | .00150 |
| | GRADIENT | .00029 | -.00251 | .00000 | -.00000 | .00036 | .00000 | .00000 | .00000 | .00000 |

RUN NO. 746/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-08 | AIL-08 | AIL-08 |
|------|----------|---------|---------|--------|---------|--------|----------|--------|---------|---------|
| .951 | -14.976 | 4.97300 | .16840 | .01750 | -.00310 | .00970 | 70.00000 | .01000 | -.00470 | .00150 |
| .951 | -10.736 | 4.97240 | .15540 | .01960 | -.00100 | .01940 | 70.00000 | .01430 | -.00470 | .00270 |
| .952 | -4.961 | 4.97620 | .14060 | .01750 | -.00310 | .00970 | 70.00000 | .01000 | -.00470 | .00150 |
| .951 | -2.434 | 4.97790 | .13330 | .02040 | -.00600 | .00970 | 70.00000 | .01580 | -.00470 | .00730 |
| .951 | -.103 | 4.97630 | .12840 | .02250 | -.00380 | .00970 | 70.00000 | .02000 | -.00470 | .00300 |
| .951 | 2.496 | 4.97690 | .11960 | .02250 | -.00380 | .00970 | 70.00000 | .02000 | -.00470 | .00300 |
| .951 | 5.033 | 4.98050 | .11090 | .01960 | -.00100 | .00970 | 70.00000 | .01430 | -.00470 | .00270 |
| .952 | 10.019 | 4.98460 | .09770 | .02250 | -.00380 | .00970 | 70.00000 | .02000 | -.00470 | .00300 |
| .952 | 15.022 | 4.98300 | .08510 | .02250 | -.00380 | .00970 | 70.00000 | .02000 | -.00470 | .00300 |
| .950 | 18.134 | 4.97980 | .07950 | .02250 | -.00380 | .00970 | 70.00000 | .02000 | -.00470 | .00300 |
| | GRADIENT | .00005 | -.00275 | .00069 | .00000 | .00000 | .00000 | .00138 | .00000 | -.00002 |

0A145 TABULATED FORCE DATA
AMES 118-1-11 0A145A 01

DATE 10 MAR 80

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = .000
ELEVON = .000
BDFLAP = .000
RN/L = 5.000
BETA = .000
AILRON = .000
SPDBRK = 70.000

RUN NO. 739/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|---------|---------|--------|---------|---------|----------|---------|--------|---------|---------|
| 1.199 | -14.965 | 5.08990 | .04230 | .00820 | -.00820 | .01940 | 70.00000 | .00500 | .01150 | -.00500 | -.01150 |
| 1.199 | -10.754 | 5.09350 | .04030 | .00580 | -.00580 | .01940 | 70.00000 | .00000 | .01150 | .00000 | -.01150 |
| 1.199 | -4.961 | 5.09420 | .03660 | .00580 | -.00580 | .00970 | 70.00000 | .00000 | .01150 | .00000 | -.01150 |
| 1.199 | -2.434 | 5.09750 | .03410 | .00580 | -.00580 | .01940 | 70.00000 | .00000 | .01150 | .00000 | -.01150 |
| 1.200 | -.089 | 5.09690 | .03180 | .00580 | -.00580 | .01940 | 70.00000 | .00000 | .01150 | .01010 | -.01150 |
| 1.200 | 2.513 | 5.09740 | .02890 | .00580 | -.00070 | .00970 | 70.00000 | .00000 | .01150 | .01010 | -.01150 |
| 1.199 | 5.024 | 5.09690 | .02670 | .00580 | -.00320 | .00970 | 70.00000 | -.00510 | .01150 | .00000 | -.01150 |
| 1.200 | 10.011 | 5.09960 | .02320 | .00320 | -.00530 | .00970 | 70.00000 | .00000 | .01150 | .00000 | -.01150 |
| 1.199 | 15.022 | 5.09960 | .02120 | .00580 | -.00320 | .00970 | 70.00000 | .00510 | .01150 | .00510 | -.01150 |
| 1.201 | 18.116 | 5.10070 | .02030 | .00830 | -.00320 | .01940 | 70.00000 | .00510 | .01150 | .00510 | -.01150 |
| | GRADIENT | .00037 | -.00103 | .00000 | .00062 | -.00001 | .00000 | .00000 | .00000 | .00124 | -.00000 |

RUN NO. 738/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|---------|---------|--------|---------|---------|----------|--------|--------|---------|---------|
| 1.404 | -14.970 | 5.07650 | .03810 | .00790 | -.00360 | .01940 | 70.00000 | .00000 | .01580 | .00000 | -.00730 |
| 1.403 | -10.762 | 5.07880 | .03650 | .01210 | .00060 | .01940 | 70.00000 | .00000 | .02430 | .00000 | .00120 |
| 1.403 | -4.924 | 5.08020 | .03310 | .01710 | -.00430 | .00970 | 70.00000 | .00990 | .02430 | -.00990 | .00120 |
| 1.403 | -2.434 | 5.08120 | .03100 | .01710 | -.00430 | .01940 | 70.00000 | .00990 | .02430 | -.00990 | .00120 |
| 1.404 | -.116 | 5.08180 | .03000 | .01710 | -.00430 | .00970 | 70.00000 | .00990 | .02430 | -.00990 | .00120 |
| 1.402 | 2.513 | 5.08260 | .02710 | .01920 | -.00220 | .01940 | 70.00000 | .00990 | .02850 | -.00990 | .00550 |
| 1.404 | 5.005 | 5.08120 | .02500 | .01920 | -.00220 | .01940 | 70.00000 | .00990 | .02850 | -.00990 | .00550 |
| 1.404 | 10.011 | 5.08220 | .02230 | .01920 | -.00220 | .01940 | 70.00000 | .00500 | .03280 | -.00500 | .00970 |
| 1.403 | 14.785 | 5.08200 | .02040 | .01890 | -.00240 | .01940 | 70.00000 | .00500 | .02430 | -.00500 | .00120 |
| 1.403 | 18.107 | 5.08180 | .01930 | .01460 | -.00190 | .01940 | 70.00000 | .00500 | .00000 | .00000 | .00000 |
| 1.404 | GRADIENT | .00032 | -.00077 | .00000 | .00000 | -.00002 | .00000 | .00000 | .00000 | .00000 | .00000 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

ALPHA =
AILRON =
SPOBRK =
RN/L =

5.000 ELEVON = .000
.000 BDFLAP = .000
70.000 RUDDER = -5.000
5.000

PARAMETRIC DATA

RUN NO. 755/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|--------|---------|--------|----------|----------|--------|--------|---------|--------|
| .597 | -6.047 | 5.07950 | .00710 | -.00280 | .00000 | 70.00000 | -4.94650 | .00990 | .00430 | -.00990 | .00430 |
| .597 | -1.913 | 5.04580 | .00710 | -.00280 | .00000 | 70.00000 | -4.95400 | .00990 | .00430 | -.00990 | .00430 |
| .597 | -.877 | 5.01480 | .00710 | -.00280 | .00000 | 70.00000 | -4.96150 | .00990 | .00430 | -.00990 | .00430 |
| .598 | .120 | 4.70130 | .00710 | -.00280 | .00000 | 70.00000 | -4.96150 | .00990 | .00430 | -.00990 | .00430 |
| .598 | .618 | 4.99320 | .00710 | -.00280 | .00000 | 70.00000 | -4.96150 | .00990 | .00430 | -.00990 | .00430 |
| .597 | 1.134 | 5.03840 | .00710 | -.00280 | .00000 | 70.00000 | -4.96900 | .00990 | .00430 | -.00990 | .00430 |
| .597 | 2.181 | 5.01860 | .00710 | -.00280 | .00000 | 70.00000 | -4.97650 | .00990 | .00430 | -.00990 | .00430 |
| .597 | 3.214 | 4.99960 | .00710 | -.00280 | .00000 | 70.00000 | -4.97650 | .00990 | .00430 | -.00990 | .00430 |
| .597 | 4.250 | 4.98200 | .00710 | -.00280 | .00000 | 70.00000 | -4.94650 | .00990 | .00430 | -.00990 | .00430 |
| .597 | 6.315 | 4.94900 | .00710 | -.00280 | .00000 | 70.00000 | -.00371 | .00000 | .00000 | .00000 | .00000 |
| .597 | GRADIENT | .00305 | .00000 | -.00000 | .00000 | .00000 | | | | | |

RUN NO. 750/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|--------|---------|---------|----------|----------|--------|--------|---------|--------|
| .902 | -6.080 | 5.04580 | .00500 | -.00500 | .00970 | 70.00000 | -4.95400 | .00990 | .00000 | -.00990 | .00000 |
| .903 | -1.943 | 5.03700 | .00500 | -.00500 | .00000 | 70.00000 | -4.97650 | .00990 | .00000 | -.00990 | .00000 |
| .900 | -.900 | 5.01910 | .00500 | -.00500 | .00000 | 70.00000 | -4.95400 | .00990 | .00000 | -.00990 | .00000 |
| .902 | .156 | 4.89090 | .00500 | -.00500 | .00970 | 70.00000 | -4.95400 | .00990 | .00000 | -.00990 | .00000 |
| .899 | .677 | 5.01770 | .00500 | -.00500 | .00000 | 70.00000 | -4.94650 | .00990 | .00000 | -.00990 | .00000 |
| .902 | 1.181 | 5.05080 | .00710 | -.00280 | .00970 | 70.00000 | -4.96150 | .00990 | .00430 | -.00990 | .00430 |
| .900 | 2.221 | 5.02880 | .00710 | -.00280 | .00000 | 70.00000 | -4.96900 | .00990 | .00430 | -.00990 | .00430 |
| .901 | 3.264 | 5.01780 | .00710 | -.00280 | .00000 | 70.00000 | -4.97650 | .00990 | .00430 | -.00990 | .00430 |
| .900 | 4.303 | 5.00390 | .00710 | -.00280 | .00000 | 70.00000 | -4.98400 | .00990 | .00430 | -.00990 | .00430 |
| .900 | 6.381 | 4.96500 | .00710 | -.00280 | .00000 | 70.00000 | | .00990 | .00430 | -.00990 | .00430 |
| .898 | GRADIENT | .00101 | .00045 | .00047 | -.00126 | .00000 | -.00003 | .00000 | .00091 | -.00000 | .00091 |

RUN NO. 745/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|---------|---------|--------|----------|----------|--------|---------|---------|---------|
| .950 | -6.095 | 5.19210 | .01830 | -.00810 | .00970 | 70.00000 | -4.93900 | .02500 | .01150 | -.00470 | -.01150 |
| .952 | -1.962 | 5.19700 | .01830 | -.00810 | .00970 | 70.00000 | -4.96900 | .02500 | .01150 | -.00470 | -.01150 |
| .951 | -.924 | 5.17770 | .02040 | -.00600 | .00970 | 70.00000 | -4.96900 | .02500 | .01580 | -.00470 | -.00730 |
| .951 | .150 | 4.95580 | .02040 | -.00600 | .00970 | 70.00000 | -4.96900 | .02500 | .01580 | -.00470 | -.00730 |
| .952 | .627 | 4.93620 | .02040 | -.00600 | .00970 | 70.00000 | -4.96900 | .02500 | .01000 | -.00470 | -.00150 |
| .951 | 1.155 | 4.92230 | .01750 | -.00310 | .00970 | 70.00000 | -4.97650 | .02500 | .01000 | -.00470 | -.00150 |
| .951 | 2.211 | 4.92050 | .01750 | -.00310 | .00970 | 70.00000 | -4.94650 | .02500 | .01000 | -.00470 | -.00150 |
| .950 | 3.255 | 4.90610 | .01750 | -.00310 | .00970 | 70.00000 | -4.95400 | .02500 | .01000 | -.00470 | -.00150 |
| .950 | 4.292 | 4.89120 | .01750 | -.00310 | .00970 | 70.00000 | -4.96150 | .02500 | .01000 | -.00470 | -.00150 |
| .947 | 6.365 | 4.85070 | .01750 | -.00310 | .00970 | 70.00000 | -4.96150 | .02500 | .01000 | -.00470 | -.00150 |
| .947 | GRADIENT | -.04998 | -.00041 | .00083 | .00000 | .00000 | .00287 | .00000 | -.00080 | -.00000 | .00165 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(C2F0B4) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 70.000 RUDDER = -5.000
RN/L = 5.000

RUN NO. 740/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|---------|---------|---------|--------|----------|----------|---------|---------|---------|---------|
| 1.201 | -6.121 | 5.10110 | .01790 | -.00850 | .00970 | 70.00000 | -4.95400 | .02000 | .01580 | -.00980 | -.00730 |
| 1.200 | -1.949 | 5.06810 | .02490 | -.01130 | .00970 | 70.00000 | -4.95400 | .02990 | .02000 | -.01970 | -.00300 |
| 1.200 | -.897 | 5.05510 | .02250 | -.00890 | .00970 | 70.00000 | -4.95400 | .02490 | .02000 | -.01470 | -.00300 |
| 1.198 | .154 | 5.09680 | .02250 | -.00890 | .00970 | 70.00000 | -4.95400 | .02490 | .02000 | -.01470 | -.00300 |
| 1.199 | .628 | 5.05890 | .01960 | -.00600 | .00970 | 70.00000 | -4.95400 | .02490 | .01430 | -.01470 | .00270 |
| 1.200 | 1.159 | 5.06000 | .01960 | -.00600 | .00970 | 70.00000 | -4.95400 | .02490 | .01430 | -.01470 | .00270 |
| 1.199 | 2.208 | 5.04240 | .01700 | -.00850 | .00970 | 70.00000 | -4.95400 | .01980 | .01430 | -.01980 | .00700 |
| 1.199 | 3.257 | 5.02700 | .01920 | -.00640 | .00970 | 70.00000 | -4.95400 | .01980 | .01850 | -.01980 | .00700 |
| 1.199 | 4.304 | 5.01520 | .01530 | -.01530 | .00970 | 70.00000 | -4.96150 | .02480 | .00580 | -.02480 | -.00580 |
| 1.197 | 6.372 | 4.99490 | .02740 | -.01800 | .00970 | 70.00000 | -4.96500 | .04470 | .01000 | -.03450 | -.00150 |
| | GRADIENT | -.00926 | -.00138 | -.00028 | .00000 | .00000 | -.00078 | -.00105 | -.00172 | -.00110 | .00054 |

RUN NO. 737/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|---------|---------|---------|--------|----------|----------|---------|--------|---------|---------|
| 1.400 | -6.137 | 5.07110 | .02250 | -.00380 | .00970 | 70.00000 | -4.96150 | .02500 | .02000 | -.00470 | -.00300 |
| 1.406 | -1.989 | 5.04580 | .02250 | -.00380 | .00970 | 70.00000 | -4.98400 | .02500 | .02000 | -.00470 | -.00300 |
| 1.404 | -.928 | 5.03210 | .02000 | -.00640 | .00970 | 70.00000 | -4.98400 | .02000 | .02000 | -.00980 | -.00300 |
| 1.403 | .138 | 5.07300 | .01250 | -.00100 | .00970 | 70.00000 | -4.99150 | .00510 | .02000 | .00510 | -.00300 |
| 1.403 | .619 | 5.00480 | .01000 | -.00150 | .00970 | 70.00000 | -4.99150 | .00000 | .02000 | .00000 | -.00300 |
| 1.402 | 1.151 | 5.00340 | .01000 | -.00150 | .00970 | 70.00000 | -4.99150 | .00000 | .02000 | .00000 | -.00300 |
| 1.403 | 2.206 | 5.00350 | .01250 | -.00100 | .00970 | 70.00000 | -4.99890 | .00510 | .02000 | .00510 | -.00300 |
| 1.403 | 3.260 | 4.98980 | .01500 | -.00650 | .00970 | 70.00000 | -4.99890 | .00990 | .02000 | -.00990 | -.00300 |
| 1.403 | 4.305 | 4.98100 | .01710 | -.00430 | .00970 | 70.00000 | -5.00640 | .00990 | .02430 | -.00990 | .00120 |
| 1.402 | 6.393 | 5.06580 | .01710 | -.00430 | .00970 | 70.00000 | -5.01390 | .00990 | .02430 | -.00990 | .00120 |
| 1.399 | GRADIENT | -.01154 | -.00080 | -.00008 | .00000 | .00000 | -.00356 | -.00205 | .00045 | -.00058 | .00044 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1177

AMES 118-1-11 OAI45A 01

(C2F085) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 87.200 RUDDER = .000
 RN/L = 5.000

RUN NO. 450/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-1B | ELV-OB | AIL-1B | AIL-OB |
|------|----------|---------|--------|---------|--------|----------|---------|--------|--------|---------|---------|
| .597 | -5.025 | -.02700 | .01790 | -.00850 | .00970 | 87.00000 | -.10960 | .02000 | .01580 | -.00980 | -.00730 |
| .598 | -.013 | .00510 | .01500 | -.00560 | .00970 | 87.00000 | -.10960 | .02000 | .01000 | -.00980 | -.00150 |
| .597 | 2.523 | .00250 | .01500 | -.00560 | .01940 | 87.00000 | -.10960 | .02000 | .01000 | -.00980 | -.00150 |
| .596 | 5.037 | .03150 | .01290 | -.00780 | .01940 | 87.00000 | -.10960 | .02000 | .00580 | -.00980 | -.00580 |
| .596 | 7.078 | .02980 | .01030 | -.01030 | .01940 | 87.00000 | -.10290 | .02000 | .00070 | -.00980 | -.01080 |
| .597 | 8.133 | .03130 | .01710 | -.00350 | .01940 | 87.00000 | -.10290 | .02000 | .01430 | -.00980 | -.00270 |
| .596 | 10.191 | .03010 | .01710 | -.00350 | .01940 | 87.00000 | -.10290 | .02000 | .01430 | -.00980 | -.00270 |
| .596 | 12.250 | .02870 | .01570 | -.01060 | .01940 | 87.00000 | -.10290 | .02000 | .01000 | -.00980 | -.01150 |
| .597 | 15.280 | .04330 | .01500 | -.00560 | .01940 | 87.00000 | -.10290 | .02000 | .01000 | -.00980 | -.01150 |
| | GRADIENT | -.00103 | .00000 | .00000 | .00387 | .00000 | .00000 | .00000 | .00000 | .00000 | -.00000 |

RUN NO. 460/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-1B | ELV-OB | AIL-1B | AIL-OB |
|------|----------|---------|---------|---------|--------|----------|---------|---------|--------|---------|---------|
| .803 | -5.427 | -.01370 | .00780 | -.00780 | .00000 | 87.00000 | -.12310 | .00990 | .00580 | -.00990 | -.00580 |
| .802 | -.001 | .00510 | .01290 | -.00780 | .00000 | 87.00000 | -.12310 | .02000 | .00580 | -.00980 | -.00580 |
| .802 | 2.583 | .00510 | .01290 | -.00780 | .00000 | 87.00000 | -.12310 | .02000 | .00580 | -.00980 | -.00580 |
| .799 | 4.995 | .02790 | .01290 | -.00780 | .00000 | 87.00000 | -.12310 | .02000 | .00580 | -.00980 | -.00580 |
| .798 | 7.020 | .01980 | .01290 | -.00780 | .00000 | 87.00000 | -.12310 | .02000 | .00580 | -.00980 | -.00580 |
| .799 | 8.036 | .01560 | .01500 | -.00560 | .00000 | 87.00000 | -.12310 | .02000 | .01000 | -.00980 | -.00150 |
| .801 | 9.951 | .01360 | .01500 | -.00560 | .00000 | 87.00000 | -.12310 | .02000 | .01000 | -.00980 | -.00150 |
| .800 | 11.965 | .01390 | -.00250 | .01700 | .00000 | 87.00000 | -.12310 | -.01510 | .01000 | .03550 | -.00150 |
| .797 | 14.829 | .01980 | -.00300 | .01150 | .00000 | 87.00000 | -.12310 | -.02020 | .01430 | .02020 | -.00270 |
| | GRADIENT | .00657 | -.00000 | .00000 | .00000 | -.00000 | .00000 | -.00000 | .00000 | .00000 | .00000 |

RUN NO. 462/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-1B | ELV-OB | AIL-1B | AIL-OB |
|------|----------|---------|---------|---------|--------|----------|---------|--------|---------|---------|---------|
| .903 | -5.893 | -.03650 | .02000 | -.00640 | .00000 | 87.00000 | -.12310 | .02000 | .02000 | -.00980 | -.00300 |
| .902 | -5.051 | -.01990 | .01960 | -.00100 | .00000 | 87.00000 | -.12310 | .02500 | .01430 | -.00470 | -.00270 |
| .903 | -.819 | -.01090 | .01920 | -.00140 | .00000 | 87.00000 | -.12310 | .02000 | .01850 | -.00980 | .00700 |
| .902 | .437 | .00170 | .01960 | -.00100 | .00000 | 87.00000 | -.12310 | .02500 | .01430 | -.00470 | .00270 |
| .903 | 2.032 | .00130 | .02180 | .00120 | .00970 | 87.00000 | -.12310 | .02500 | .01850 | -.00470 | .00700 |
| .901 | 4.550 | .00530 | .01790 | -.00270 | .00970 | 87.00000 | -.12310 | .03010 | .00580 | .00040 | -.00580 |
| .898 | 6.778 | .02250 | .01930 | .00450 | .00000 | 87.00000 | -.12310 | .03010 | .00850 | .00040 | -.00850 |
| .901 | 8.231 | .01650 | .01960 | -.00100 | .00000 | 87.00000 | -.12310 | .02500 | .01430 | -.00470 | .00270 |
| .901 | 10.229 | .01550 | .01960 | -.00100 | .00000 | 87.00000 | -.12310 | .02500 | .01430 | -.00470 | .00270 |
| .902 | 12.171 | .01300 | .01960 | -.00100 | .00000 | 87.00000 | -.12310 | .02500 | .01430 | -.00470 | .00270 |
| .902 | 14.807 | .03310 | .01960 | -.00100 | .00000 | 87.00000 | -.12310 | .02500 | .01430 | -.00470 | .00270 |
| | GRADIENT | .00244 | -.00019 | -.00019 | .00210 | -.00000 | -.00000 | .00169 | -.00208 | .00170 | -.00209 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

AMES 118-1-11 OAI45A 01

(C2F085) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BOFLAP = .000
SPDBRK = 87.200 RUDDER = .000
RN/L = 5.000

RUN NO. 473/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-IB | AIL-IB | ELV-OB | AIL-OB |
|------|----------|---------|--------|---------|--------|----------|---------|--------|---------|---------|---------|
| .952 | -5.204 | -.03910 | .02290 | -.00760 | .00000 | 87.00000 | -.12310 | .04000 | -.00950 | .00580 | -.00580 |
| .952 | -.133 | -.00280 | .02890 | .00340 | .00000 | 87.00000 | -.10290 | .03510 | -.00450 | .01120 | .01120 |
| .951 | 2.324 | .00200 | .02890 | .00340 | .00000 | 87.00000 | -.10290 | .03510 | -.00450 | .01120 | .01120 |
| .948 | 4.840 | .01940 | .02930 | -.00120 | .00000 | 87.00000 | -.08940 | .04000 | -.00950 | .01850 | .00700 |
| .950 | 6.837 | .01590 | .03350 | .00300 | .00000 | 87.00000 | -.08940 | .04000 | -.00950 | .01550 | .01550 |
| .949 | 7.798 | .01950 | .03350 | .00300 | .00000 | 87.00000 | -.08940 | .04000 | -.00950 | .01550 | .01550 |
| .951 | 9.875 | .01730 | .02840 | -.00210 | .00000 | 87.00000 | -.06240 | .02990 | -.01970 | .01000 | -.00150 |
| .950 | 12.068 | .01530 | .02500 | -.00550 | .00000 | 87.00000 | -.11640 | .04000 | -.00950 | .01000 | -.00150 |
| .950 | 15.131 | .01890 | .02250 | -.00800 | .00000 | 87.00000 | -.08940 | .03500 | -.01460 | .01000 | -.00150 |
| .950 | GRADIENT | .00447 | .00008 | -.00093 | .00000 | .00000 | .00273 | .00099 | -.00101 | -.00087 | -.00085 |

RUN NO. 486/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-IB | AIL-IB | ELV-OB | AIL-OB |
|-------|----------|---------|---------|---------|--------|----------|---------|---------|---------|--------|---------|
| 1.103 | -5.182 | -.03700 | .01540 | -.00520 | .01940 | 87.00000 | -.13210 | .02500 | -.00470 | .00580 | -.00580 |
| 1.103 | -.165 | -.00410 | .01540 | -.00520 | .00970 | 87.00000 | -.11640 | .02500 | -.00470 | .00580 | -.00580 |
| 1.104 | 2.139 | .00420 | .01290 | -.00780 | .00970 | 87.00000 | -.10960 | .02000 | -.00980 | .00580 | -.00580 |
| 1.103 | 2.417 | .00740 | .01460 | -.00100 | .00970 | 87.00000 | -.09620 | .01500 | -.00480 | .01430 | .00270 |
| 1.102 | 5.122 | .03320 | .01250 | -.00320 | .00970 | 87.00000 | -.10960 | .01500 | -.00480 | .01000 | -.00150 |
| 1.105 | 7.184 | .01690 | .01000 | -.00570 | .00970 | 87.00000 | -.10960 | .00990 | -.00990 | .01430 | .00270 |
| 1.105 | 8.157 | .02410 | .01210 | -.00360 | .00000 | 87.00000 | -.08940 | .00990 | -.00990 | .01000 | -.00150 |
| 1.101 | 10.153 | .02300 | .01500 | -.00560 | .00970 | 87.00000 | -.09620 | .02000 | -.00980 | .00580 | -.00580 |
| 1.102 | 12.177 | .01920 | .01290 | -.00780 | .00970 | 87.00000 | -.08940 | .02000 | -.00980 | .00580 | -.00580 |
| 1.101 | 15.161 | .02120 | .01290 | -.00780 | .05820 | 87.00000 | -.09620 | .02000 | -.00980 | .00580 | -.00580 |
| 1.101 | GRADIENT | .00412 | -.00061 | .00056 | .00000 | -.00000 | .00594 | -.00321 | -.00088 | .00202 | .00202 |

RUN NO. 489/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-IB | AIL-IB | ELV-OB | AIL-OB |
|-------|----------|---------|---------|---------|--------|----------|---------|---------|---------|--------|---------|
| 1.199 | -5.188 | -.05060 | .01540 | -.00520 | .00000 | 87.00000 | -.10290 | .02500 | -.00470 | .00580 | -.00580 |
| 1.202 | -.152 | -.00510 | .01540 | -.00520 | .00000 | 87.00000 | -.09620 | .02500 | -.00470 | .00580 | -.00580 |
| 1.199 | 2.417 | .00290 | .01540 | -.00520 | .00000 | 87.00000 | -.09620 | .02500 | -.00470 | .00580 | -.00580 |
| 1.198 | 4.998 | .02420 | .01040 | -.00530 | .01940 | 87.00000 | -.08940 | .01500 | -.00480 | .00580 | -.00580 |
| 1.200 | 7.061 | .02320 | .01030 | -.01030 | .00970 | 87.00000 | -.08270 | .01490 | -.01490 | .00580 | -.00580 |
| 1.198 | 8.095 | .02100 | .01540 | -.00520 | .00970 | 87.00000 | -.08270 | .02500 | -.00470 | .00580 | -.00580 |
| 1.196 | 10.130 | .01880 | .01290 | -.00780 | .00970 | 87.00000 | -.07590 | .02000 | -.00980 | .00580 | -.00580 |
| 1.199 | 12.156 | .01610 | .01290 | -.00780 | .00000 | 87.00000 | -.07590 | .02000 | -.00980 | .00580 | -.00580 |
| 1.198 | 15.171 | .01730 | .01290 | -.00780 | .00000 | 87.00000 | -.07590 | .02000 | -.00980 | .00580 | -.00580 |
| 1.198 | GRADIENT | .00569 | -.00097 | -.00002 | .00377 | .00000 | .00132 | -.00194 | -.00002 | .00000 | -.00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1179

AMES 118-1-11 OAI45A 01

(C2F085) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO.

500/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | AIL-1B | ELV-0B | AIL-0B |
|-------|----------|---------|--------|---------|--------|----------|---------|--------|---------|--------|---------|
| 1.403 | -5.076 | -0.3840 | .01550 | -.00020 | .00000 | 87.00000 | -.08270 | .02520 | .00540 | .00580 | .00580 |
| 1.404 | -.035 | -.00260 | .01500 | -.00060 | .00970 | 87.00000 | -.07590 | .02010 | .00030 | .01000 | -.00150 |
| 1.403 | 2.494 | .01350 | .01500 | -.00060 | .00970 | 87.00000 | -.02870 | .02010 | .00030 | .01000 | -.00150 |
| 1.401 | 5.092 | .02850 | .01500 | -.00060 | .00000 | 87.00000 | -.02200 | .02010 | .00030 | .01000 | -.00150 |
| 1.400 | 7.150 | .02460 | .01040 | -.00530 | .00000 | 87.00000 | -.02200 | .01500 | -.00480 | .00580 | -.00580 |
| 1.400 | 8.189 | .02110 | .01040 | -.00530 | .00000 | 87.00000 | -.01520 | .01500 | -.00480 | .00580 | -.00580 |
| 1.401 | 10.210 | .01920 | .01040 | -.00530 | .00000 | 87.00000 | -.01520 | .01500 | -.00480 | .00580 | -.00580 |
| 1.400 | 12.263 | .01730 | .01500 | -.00060 | .00970 | 87.00000 | -.00180 | .02010 | .00030 | .01000 | -.00150 |
| 1.400 | 15.283 | .02340 | .01250 | -.00320 | .00970 | 87.00000 | -.00180 | .01500 | -.00480 | .01000 | -.00150 |
| 1.394 | GRADIENT | .00637 | .00000 | .00000 | .00000 | .00000 | .01867 | .00000 | .00000 | .00000 | .00000 |

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 87.200 RUDDER = .000
 RN/L = 5.000

AMES 118-1-11 OAI45A 01

(C2F086) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO.

880/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | AIL-1B | ELV-0B | AIL-0B |
|------|----------|---------|--------|---------|---------|----------|---------|---------|--------|--------|---------|
| .596 | -5.107 | 1.88430 | .01300 | .00230 | .00970 | 87.00000 | -.10290 | .02020 | .01030 | .00580 | -.00580 |
| .598 | -.336 | 1.96140 | .01300 | .00230 | .00970 | 87.00000 | -.09620 | .02020 | .01030 | .00580 | -.00580 |
| .598 | 2.187 | 1.96390 | .01300 | .00230 | .00970 | 87.00000 | -.09620 | .02020 | .01030 | .00580 | -.00580 |
| .597 | 4.747 | 1.99660 | .01300 | .00230 | .00970 | 87.00000 | -.09620 | .02020 | .01030 | .00580 | -.00580 |
| .597 | 7.835 | 1.97700 | .01510 | .00440 | .00970 | 87.00000 | -.08940 | .02020 | .01030 | .01000 | -.00150 |
| .597 | 9.902 | 1.94920 | .01510 | .00440 | .00970 | 87.00000 | -.07590 | .02020 | .01030 | .01000 | -.00150 |
| .596 | 11.941 | 1.96340 | .01510 | .00440 | .00970 | 87.00000 | -.07590 | .02020 | .01030 | .01000 | -.00150 |
| .597 | 14.920 | 1.99200 | .01750 | .00190 | .00970 | 87.00000 | -.11640 | .02520 | .00540 | .01000 | -.00150 |
| .597 | 16.887 | 2.01880 | .01260 | .00190 | .00970 | 87.00000 | -.11640 | .01510 | .00520 | .01000 | -.00150 |
| .597 | 18.940 | 1.99900 | .01500 | -.00060 | .00970 | 87.00000 | -.11640 | .02010 | .00030 | .01000 | -.00150 |
| .597 | GRADIENT | .00694 | .00000 | -.00000 | -.00000 | -.00000 | .00000 | -.00000 | .00000 | .00000 | .00000 |

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 87.200 RUDDER = .000
 RN/L = 5.000

DATE 10 MAR 80

OA145 TABULATED FORCE DATA

PAGE 1180

AMES 118-1-11 OA145A 01

(C2F086) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 87.2000 RUDDER = .000
 RN/L = 5.000

RUN NO. 878/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|--------|---------|---------|----------|---------|---------|---------|---------|
| .798 | -5.072 | 1.89760 | .01330 | -.00310 | .00970 | 87.00000 | -.10290 | .01150 | .00520 | -.01150 |
| .801 | -.335 | 1.97100 | .01330 | -.00310 | .00970 | 87.00000 | -.12310 | .01150 | .00520 | -.01150 |
| .798 | 2.218 | 1.97870 | .01330 | -.00310 | .00970 | 87.00000 | -.12310 | .01150 | .00520 | -.01150 |
| .798 | 4.773 | 1.99420 | .01330 | -.00310 | .00970 | 87.00000 | -.12310 | .01150 | .00520 | -.01150 |
| .797 | 7.853 | 1.99120 | .01040 | -.00030 | .00970 | 87.00000 | -.10290 | .00580 | .00520 | -.00580 |
| .796 | 9.895 | 1.97590 | .01260 | .00190 | .00970 | 87.00000 | -.09620 | .01000 | .00520 | -.00150 |
| .796 | 11.940 | 1.98590 | .01040 | -.00030 | .00970 | 87.00000 | -.07590 | .00580 | .00520 | -.00580 |
| .797 | 14.908 | 2.01240 | .01540 | -.00100 | .01940 | 87.00000 | -.08940 | .01580 | .00520 | -.00730 |
| .797 | 16.909 | 2.04420 | .01540 | -.00100 | .01940 | 87.00000 | -.08940 | .01580 | .00520 | -.00730 |
| .798 | 18.948 | 2.02280 | .01540 | -.00100 | .01940 | 87.00000 | -.13210 | .01580 | .00520 | -.00730 |
| | GRADIENT | .00454 | .00000 | .00000 | -.00000 | -.00000 | .00000 | -.00000 | -.00000 | .00000 |

RUN NO. 878/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|--------|---------|---------|----------|---------|---------|--------|---------|
| .898 | -5.068 | 1.95710 | .01760 | .00190 | .01940 | 87.00000 | -.10290 | .01000 | .00540 | -.00150 |
| .901 | -.289 | 2.03140 | .01760 | .00190 | .01940 | 87.00000 | -.10290 | .01000 | .00540 | -.00150 |
| .902 | 2.220 | 2.04100 | .01760 | .00190 | .01940 | 87.00000 | -.07590 | .01000 | .00540 | -.00150 |
| .899 | 4.773 | 2.07830 | .01760 | .00190 | .00970 | 87.00000 | -.08270 | .01000 | .00540 | -.00150 |
| .899 | 7.835 | 2.02900 | .01760 | .00190 | .01940 | 87.00000 | -.14110 | .01000 | .00540 | -.00150 |
| .900 | 9.895 | 1.98280 | .01760 | .00190 | .01940 | 87.00000 | -.12310 | .01000 | .00540 | -.00150 |
| .897 | 11.985 | 1.99330 | .01300 | .00230 | .01940 | 87.00000 | -.10960 | .01000 | .00520 | -.00150 |
| .900 | 14.931 | 2.01940 | .01260 | .00190 | .01940 | 87.00000 | -.08940 | .01000 | .00520 | -.00150 |
| .898 | 16.941 | 2.04870 | .01540 | -.00100 | .02910 | 87.00000 | -.08940 | .01580 | .00520 | -.00730 |
| .899 | 18.969 | 2.02390 | .01790 | -.00350 | .02910 | 87.00000 | -.10290 | .01580 | .00030 | -.00730 |
| | GRADIENT | .00928 | .00000 | .00000 | -.00192 | .00000 | .00397 | -.00000 | .00000 | .00000 |

RUN NO. 877/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|--------|---------|--------|----------|---------|--------|--------|---------|
| .950 | -5.043 | 1.96060 | .01550 | -.00020 | .01940 | 87.00000 | -.19490 | .00580 | .00540 | -.00580 |
| .951 | -.039 | 2.04180 | .01760 | .00190 | .01940 | 87.00000 | -.10960 | .01000 | .00540 | -.00150 |
| .950 | 2.423 | 2.01080 | .01970 | .00410 | .01940 | 87.00000 | -.04220 | .01430 | .00540 | .00270 |
| .950 | 4.841 | 2.02190 | .01970 | .00410 | .01940 | 87.00000 | -.10290 | .01430 | .00540 | .00270 |
| .950 | 8.029 | 2.02870 | .01830 | -.00310 | .01940 | 87.00000 | -.24870 | .01150 | .00540 | -.01150 |
| .950 | 10.003 | 1.98200 | .01580 | -.00560 | .01940 | 87.00000 | -.08270 | .01150 | .00030 | -.01150 |
| .951 | 11.929 | 1.98820 | .01790 | -.00350 | .02910 | 87.00000 | -.07590 | .01580 | .00030 | -.00730 |
| .951 | 14.938 | 2.01330 | .01790 | -.00350 | .02910 | 87.00000 | -.08940 | .01580 | .00030 | -.00730 |
| .950 | 17.044 | 2.04400 | .01790 | -.00350 | .02910 | 87.00000 | -.10960 | .01580 | .00030 | -.00730 |
| .950 | 19.032 | 2.01480 | .01720 | .00150 | .02910 | 87.00000 | -.10960 | .01430 | .00030 | .00270 |
| | GRADIENT | -.00409 | .00043 | .00045 | .00000 | .00000 | .00154 | .00088 | .00000 | .00086 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1181

AMES 118-1-11 OAI45A 01

(C2F086) (11 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 PREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .0000
 AILRON = .0000
 SPDBRK = 87.200
 RN/L = 5.000
 ELEVON = .000
 BOFLAP = .000
 RUDDER = .000

RUN NO. 876/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-IB | AIL-IB | ELV-OB | AIL-OB |
|----------|--------|---------|---------|---------|--------|----------|---------|--------|---------|---------|---------|
| 1.198 | -5.071 | 1.98190 | .01540 | -.00100 | .00000 | 87.00000 | -.15900 | .01510 | .00520 | .01580 | -.00730 |
| 1.198 | -.056 | 1.99990 | .01800 | .00150 | .00000 | 87.00000 | -.19490 | .02020 | .01030 | .01580 | -.00730 |
| 1.198 | 2.484 | 1.99230 | .01300 | .00230 | .00000 | 87.00000 | -.06920 | .02020 | .01030 | .00580 | -.00580 |
| 1.199 | 5.027 | 2.00090 | .01330 | -.00310 | .00000 | 87.00000 | -.02870 | .01510 | .00520 | .01150 | -.01150 |
| 1.199 | 8.028 | 2.01320 | .01260 | .00190 | .00000 | 87.00000 | -.10290 | .01510 | .00520 | .01000 | -.00150 |
| 1.197 | 10.036 | 2.00320 | .01790 | -.00350 | .00000 | 87.00000 | -.10290 | .02010 | .00520 | .01580 | -.00730 |
| 1.197 | 12.014 | 1.97710 | .01540 | -.00600 | .00970 | 87.00000 | -.04220 | .01500 | -.00480 | .01580 | -.00730 |
| 1.197 | 14.974 | 2.05570 | .01790 | -.00350 | .00970 | 87.00000 | -.04220 | .02010 | .00030 | .01580 | -.00730 |
| 1.197 | 16.927 | 2.04770 | .01330 | -.00820 | .00970 | 87.00000 | -.10960 | .01500 | -.00480 | .01150 | -.01150 |
| 1.157 | 19.007 | 2.01700 | .01290 | -.00270 | .00970 | 87.00000 | -.06920 | .02010 | .00030 | .00580 | -.00580 |
| GRADIENT | | -.00299 | -.00197 | .00032 | .00000 | -.00000 | .04950 | .00000 | -.00000 | -.00394 | .00059 |

RUN NO. 875/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-IB | AIL-IB | ELV-OB | AIL-OB |
|----------|--------|---------|---------|---------|--------|----------|---------|---------|---------|---------|---------|
| 1.298 | -5.014 | 1.97110 | .01800 | .00150 | .00000 | 87.00000 | -.13210 | .02020 | .01030 | .01580 | -.00730 |
| 1.296 | -.008 | 1.98120 | .01800 | .00150 | .00000 | 87.00000 | -.16800 | .02020 | .01030 | .01580 | -.00730 |
| 1.297 | 2.520 | 1.98550 | .01590 | -.00060 | .00000 | 87.00000 | -.13210 | .02020 | .01030 | .01150 | -.01150 |
| 1.296 | 5.036 | 2.01230 | .01510 | .00440 | .00000 | 87.00000 | -.05570 | .02020 | .01030 | .01000 | -.00150 |
| 1.295 | 8.107 | 2.05820 | .01260 | .00190 | .00000 | 87.00000 | -.03550 | .01510 | .00520 | .01000 | -.00150 |
| 1.295 | 10.075 | 1.98160 | .01540 | -.00100 | .00970 | 87.00000 | -.09620 | .01510 | .00520 | .01580 | -.00730 |
| 1.294 | 12.064 | 1.98680 | .01330 | -.00310 | .00970 | 87.00000 | -.03550 | .01510 | .00520 | .01150 | -.01150 |
| 1.292 | 15.030 | 2.01300 | .01330 | -.00310 | .00970 | 87.00000 | -.05570 | .01510 | .00520 | .01150 | -.01150 |
| 1.290 | 16.880 | 2.00020 | .01040 | -.00030 | .01940 | 87.00000 | -.02200 | .01510 | .00520 | .00580 | -.00580 |
| 1.289 | 18.699 | 1.90810 | .01040 | -.00030 | .01940 | 87.00000 | -.00850 | .01510 | .00520 | .00580 | -.00580 |
| GRADIENT | | .00170 | -.00083 | -.00083 | .00000 | -.00000 | .01420 | -.00000 | -.00000 | -.00170 | -.00166 |

RUN NO. 874/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-IB | AIL-IB | ELV-OB | AIL-OB |
|----------|--------|---------|---------|---------|--------|----------|---------|---------|---------|---------|---------|
| 1.403 | -5.265 | 1.96020 | .01800 | .00150 | .01940 | 87.00000 | -.07590 | .02020 | .01030 | .01580 | -.00730 |
| 1.404 | -.038 | 2.06000 | .01590 | -.00060 | .01940 | 87.00000 | -.11640 | .02020 | .01030 | .01150 | -.01150 |
| 1.403 | 2.501 | 2.04000 | .01510 | .00440 | .02910 | 87.00000 | -.12310 | .02020 | .01030 | .01000 | -.00150 |
| 1.401 | 5.076 | 2.08830 | .01510 | .00440 | .01940 | 87.00000 | -.08940 | .02020 | .01030 | .01000 | -.00150 |
| 1.401 | 8.063 | 2.01740 | .01300 | .00230 | .02910 | 87.00000 | -.04900 | .02020 | .01030 | .00580 | -.00580 |
| 1.400 | 10.019 | 2.01120 | .01300 | .00230 | .01940 | 87.00000 | -.05570 | .02020 | .01030 | .00580 | -.00580 |
| 1.399 | 11.990 | 2.02350 | .01260 | .00190 | .01940 | 87.00000 | -.09620 | .01510 | .00520 | .01000 | -.00150 |
| 1.397 | 14.986 | 2.04400 | .01300 | .00230 | .00970 | 87.00000 | -.02200 | .02020 | .01030 | .00580 | -.00580 |
| 1.391 | 16.845 | 2.07330 | .01040 | -.00030 | .00970 | 87.00000 | -.01520 | .01510 | .00520 | .00580 | -.00580 |
| 1.388 | 18.766 | 2.08920 | .01300 | .00230 | .00970 | 87.00000 | -.00850 | .02020 | .01030 | .00580 | -.00580 |
| GRADIENT | | -.00787 | -.00031 | .00197 | .00382 | .00000 | -.00264 | -.00000 | -.00000 | -.00059 | .00394 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

(C2F087) (08 JUL 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000
 AILRON = .000
 SPOBRK = 87.200
 RUDDER = .000
 ELEVON = .000
 BDFLAP = .000
 RUDDER = 5.000

RUN NO. 457/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|--------|---------|--------|----------|---------|--------|--------|---------|--------|
| .598 | -6.191 | .19220 | .01460 | -.00100 | .01940 | 87.00000 | -.12310 | .01500 | .01430 | -.00480 | .00270 |
| .598 | -2.105 | .04490 | .01460 | -.00100 | .00970 | 87.00000 | -.12310 | .01500 | .01430 | -.00480 | .00270 |
| .598 | -1.061 | .00810 | .01460 | -.00100 | .00970 | 87.00000 | -.12310 | .01500 | .01430 | -.00480 | .00270 |
| .598 | .011 | -.01370 | .01460 | -.00100 | .01940 | 87.00000 | -.12310 | .01500 | .01430 | -.00480 | .00270 |
| .598 | .529 | -.01420 | .01460 | -.00100 | .01940 | 87.00000 | -.12310 | .02010 | .01430 | -.00480 | .00270 |
| .598 | 1.051 | .00930 | .01720 | .00150 | .01940 | 87.00000 | -.12310 | .02010 | .01430 | -.00480 | .00270 |
| .598 | 2.108 | .01360 | .01720 | .00150 | .01940 | 87.00000 | -.12310 | .02010 | .01430 | -.00480 | .00270 |
| .598 | 3.146 | .02050 | .01720 | .00150 | .01940 | 87.00000 | -.12310 | .02010 | .01430 | -.00480 | .00270 |
| .598 | 4.180 | .02500 | .01720 | .00150 | .00970 | 87.00000 | -.12310 | .02010 | .01430 | -.00480 | .00270 |
| .598 | 6.237 | .03840 | .01720 | .00150 | .00970 | 87.00000 | -.12310 | .02010 | .01430 | -.00480 | .00270 |
| .598 | 8.287 | .03950 | .01720 | .00150 | .00970 | 87.00000 | -.12310 | .02010 | .01430 | -.00480 | .00270 |
| .597 | GRADIENT | .00016 | .00055 | .00053 | .00160 | -.00000 | -.00000 | .00108 | .00000 | .00108 | .00000 |

RUN NO. 458/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|---------|--------|----------|---------|---------|---------|---------|---------|
| .804 | -6.237 | .18360 | .02100 | .00530 | .03880 | 87.00000 | -.11640 | .01500 | .02700 | -.00480 | .01550 |
| .805 | -2.127 | .03190 | .02310 | .00750 | .00970 | 87.00000 | -.12310 | .01500 | .03130 | -.00480 | .01970 |
| .804 | -1.072 | -.00540 | .02310 | .00750 | .00970 | 87.00000 | -.12310 | .01500 | .03130 | -.00480 | .01970 |
| .804 | .004 | -.02900 | .01680 | .00110 | .01940 | 87.00000 | -.12310 | .01500 | .01850 | -.00480 | .00700 |
| .805 | .532 | -.03410 | .07840 | .06270 | .01940 | 87.00000 | -.12310 | .01500 | .14180 | -.00480 | .13020 |
| .804 | 1.055 | -.01450 | .00780 | -.00780 | .02910 | 87.00000 | -.12310 | .00990 | .00580 | -.00990 | -.00580 |
| .803 | 2.122 | -.00950 | .00780 | -.00780 | .00455 | 87.00000 | -.12310 | .00990 | .00580 | -.00990 | -.00580 |
| | GRADIENT | -.00959 | -.00181 | -.00181 | .00455 | -.00000 | -.00000 | -.00133 | -.00228 | -.00133 | -.00228 |

RUN NO. 468/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|---------|--------|----------|---------|---------|---------|---------|--------|
| .902 | -6.265 | .06660 | .02710 | -.00340 | .01940 | 87.00000 | -.10960 | .04000 | .01430 | -.00950 | .00270 |
| .903 | -2.133 | -.16000 | .02710 | -.00340 | .00000 | 87.00000 | -.12310 | .04000 | .01430 | -.00950 | .00270 |
| .901 | -1.075 | -.19480 | .02710 | -.00340 | .00000 | 87.00000 | -.12310 | .04000 | .01430 | -.00950 | .00270 |
| .901 | .009 | -.21610 | .02710 | -.00340 | .00000 | 87.00000 | -.12310 | .04000 | .01430 | -.00950 | .00270 |
| .903 | .532 | -.22240 | .02710 | -.00340 | .00970 | 87.00000 | -.12310 | .04000 | .01430 | -.00950 | .00270 |
| .901 | 1.057 | -.20320 | .02710 | -.00340 | .01940 | 87.00000 | -.12310 | .03500 | .01430 | -.01460 | .00270 |
| .901 | 2.124 | -.19830 | .02460 | -.00590 | .00970 | 87.00000 | -.12310 | .03500 | .01430 | -.01460 | .00270 |
| .901 | 3.175 | -.19170 | .02460 | -.00590 | .00970 | 87.00000 | -.12310 | .03500 | .01430 | -.01460 | .00270 |
| .902 | 4.220 | -.19130 | .02460 | -.00590 | .00970 | 87.00000 | -.12310 | .03500 | .01430 | -.01460 | .00270 |
| .899 | 6.300 | -.18620 | .01950 | -.01100 | .00970 | 87.00000 | -.12310 | .02480 | .01430 | -.02480 | .00270 |
| .898 | 8.369 | -.18990 | .02460 | -.00590 | .00970 | 87.00000 | -.11640 | .03500 | .01430 | -.01460 | .00270 |
| | GRADIENT | -.00194 | -.00052 | -.00052 | .00191 | -.00000 | -.00092 | -.00103 | -.00000 | -.00105 | .00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1183

AMES 118-1-11 OAI45A 01

(C2F087) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPOBRK = 87.200 RUDDER = .000
 RN/L = 5.000

RUN NO. 479/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|---------|---------|--------|----------|---------|---------|---------|---------|---------|
| .951 | -6.264 | .58240 | .01750 | -.00310 | .01940 | 87.00000 | -.09620 | .02500 | .01000 | -.00470 | -.00150 |
| .954 | -2.133 | -.10550 | .01500 | -.00560 | .00000 | 87.00000 | -.17690 | .02000 | .01000 | -.00980 | -.00150 |
| .952 | -1.072 | -.13830 | .01240 | -.00820 | .00000 | 87.00000 | -.08270 | .01490 | .01000 | -.01490 | -.00150 |
| .951 | .013 | -.15670 | .01240 | -.00820 | .00000 | 87.00000 | -.08940 | .01490 | .01000 | -.01490 | -.00150 |
| .953 | .537 | -.15470 | .01290 | -.00780 | .00000 | 87.00000 | -.09620 | .02000 | .00580 | -.00980 | -.00580 |
| .951 | 1.064 | -.13600 | .00780 | -.01280 | .00000 | 87.00000 | -.09620 | .02000 | -.00440 | -.00980 | -.01590 |
| .951 | 2.133 | -.13050 | .01290 | -.00780 | .00000 | 87.00000 | -.10960 | .02000 | .00580 | -.00980 | -.00580 |
| .952 | 3.186 | -.12960 | .01030 | -.01030 | .00000 | 87.00000 | -.12310 | .01490 | .00580 | -.01490 | -.00580 |
| .950 | 4.230 | -.13220 | .01030 | -.01030 | .00000 | 87.00000 | -.14110 | .01490 | .00580 | -.01490 | -.00580 |
| .949 | 6.314 | -.13820 | .01030 | -.01030 | .00000 | 87.00000 | -.17690 | .01490 | .00580 | -.01490 | -.00580 |
| .947 | 8.381 | -.15360 | .01030 | -.01030 | .00000 | 87.00000 | -.09620 | .01490 | .00580 | -.01490 | -.00580 |
| | GRADIENT | -.00032 | -.00061 | -.00062 | .00000 | -.00000 | -.00005 | -.00038 | -.00084 | -.00038 | -.00086 |

RUN NO. 506/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|---------|---------|---------|--------|----------|---------|---------|---------|---------|---------|
| 1.198 | -6.271 | .11230 | .01550 | -.00020 | .00000 | 87.00000 | -.15900 | .02520 | .00580 | .00540 | -.00580 |
| 1.202 | -2.126 | -.01540 | .01760 | .00190 | .00000 | 87.00000 | -.15900 | .02520 | .01000 | .00540 | -.00150 |
| 1.199 | -1.071 | -.05110 | .01760 | .00190 | .00970 | 87.00000 | -.13210 | .02520 | .01000 | .00540 | -.00150 |
| 1.199 | .013 | -.07180 | .01970 | .00410 | .00000 | 87.00000 | -.14110 | .02520 | .01430 | .00540 | .00270 |
| 1.200 | .536 | -.06820 | .01970 | .00410 | .00000 | 87.00000 | -.12310 | .02520 | .01430 | .00540 | .00270 |
| 1.199 | 1.063 | -.05000 | .01930 | .00360 | .00970 | 87.00000 | -.12310 | .02010 | .01850 | .00030 | .00700 |
| 1.199 | 2.131 | -.04100 | .01500 | -.00060 | .00970 | 87.00000 | -.12310 | .02010 | .01000 | .00030 | -.00150 |
| 1.198 | 3.186 | -.04010 | .01500 | -.00060 | .00970 | 87.00000 | -.13210 | .02010 | .01000 | .00030 | -.00150 |
| 1.199 | 4.234 | -.03730 | .01500 | -.00060 | .00970 | 87.00000 | -.14110 | .02010 | .01000 | .00030 | -.00150 |
| 1.196 | 6.322 | -.03930 | .01250 | -.00320 | .00000 | 87.00000 | -.17690 | .01500 | .01000 | -.00480 | -.00150 |
| 1.197 | 8.400 | -.04100 | .01500 | -.00060 | .00970 | 87.00000 | -.15900 | .02010 | .01000 | .00030 | -.00150 |
| | GRADIENT | -.00009 | -.00063 | -.00061 | .00139 | .00000 | .00221 | -.00106 | -.00018 | -.00106 | -.00017 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(C2F088) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
AILRON = .000 BOFLAP = .000
SPOBRK = 87.200 RUDDER = .000
RN/L = 5.000

RUN NO. 447/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|---------|--------|----------|---------|---------|---------|---------|
| .598 | -6.052 | 5.17750 | .02130 | -.00010 | .01940 | 87.00000 | -.10290 | .03280 | -.00990 | .00970 |
| .598 | -1.926 | 5.14350 | .01920 | -.00220 | .00970 | 87.00000 | -.10290 | .02850 | -.00990 | .00550 |
| .598 | -.885 | 5.11040 | .02130 | -.00010 | .00970 | 87.00000 | -.10960 | .03280 | -.00990 | .00970 |
| .598 | .027 | 4.99440 | .01500 | -.00650 | .00970 | 87.00000 | -.10960 | .02000 | -.00990 | -.00300 |
| .598 | .495 | 5.19510 | .01500 | -.00650 | .00970 | 87.00000 | -.10960 | .02000 | -.00990 | -.00300 |
| .598 | 1.011 | 5.20640 | .01070 | -.01070 | .00970 | 87.00000 | -.10290 | .01150 | -.00990 | -.01150 |
| .598 | 2.076 | 5.21190 | .01710 | -.00430 | .00970 | 87.00000 | -.10960 | .02430 | -.00990 | .00120 |
| .598 | 3.119 | 5.19730 | .01710 | -.00430 | .00970 | 87.00000 | -.10960 | .02430 | -.00990 | .00120 |
| .598 | 4.152 | 5.19480 | .01920 | -.00220 | .00970 | 87.00000 | -.10960 | .02850 | -.00990 | .00550 |
| .597 | 6.214 | 5.18840 | .02130 | -.00010 | .00970 | 87.00000 | -.11640 | .03280 | -.00990 | .00970 |
| .597 | GRADIENT | .01836 | -.00015 | -.00015 | .00000 | .00000 | -.00068 | -.00031 | -.00000 | -.00031 |

RUN NO. 459/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|--------|---------|---------|----------|---------|--------|---------|--------|
| .803 | -6.122 | 5.12500 | .01040 | -.00530 | .02910 | 87.00000 | -.11640 | .00580 | -.00480 | .00580 |
| .802 | -2.034 | 4.99680 | .01040 | -.00530 | .01940 | 87.00000 | -.12310 | .00580 | -.00480 | .00580 |
| .802 | -.987 | 4.99300 | .01040 | -.00530 | .02910 | 87.00000 | -.12310 | .00580 | -.00480 | .00580 |
| .803 | .049 | 4.88340 | .01040 | -.00530 | .02910 | 87.00000 | -.12310 | .00580 | -.00480 | .00580 |
| .802 | .534 | 4.94170 | .01040 | -.00530 | .03880 | 87.00000 | -.12310 | .00580 | -.00480 | .00580 |
| .802 | 1.075 | 4.97420 | .01040 | -.00530 | .00000 | 87.00000 | -.12310 | .00580 | -.00480 | .00580 |
| .801 | 2.123 | 4.95280 | .01290 | -.00780 | .00000 | 87.00000 | -.12310 | .00580 | -.00480 | .00580 |
| .802 | 3.156 | 4.95470 | .01040 | -.00530 | .00000 | 87.00000 | -.12310 | .00580 | -.00480 | .00580 |
| .802 | 4.195 | 4.95550 | .01290 | -.00780 | .00000 | 87.00000 | -.12310 | .00580 | -.00480 | .00580 |
| .801 | 6.276 | 4.94650 | .01030 | -.01030 | .00000 | 87.00000 | -.14110 | .00580 | -.01490 | .00580 |
| .801 | 8.328 | 4.93630 | .01030 | -.01030 | .00000 | 87.00000 | -.14110 | .00580 | -.01490 | .00580 |
| .801 | GRADIENT | -.00422 | .00035 | -.00035 | -.00540 | .00000 | -.00000 | .00000 | -.00071 | .00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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ANES 118-1-11 OAI45A 01

(C2F088) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 463/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH .902 BETA -5.115
 .902 -1.966
 .901 -.921
 .902 .126
 .901 .649
 .902 1.152
 .901 2.202
 .901 3.251
 .900 4.294
 .899 6.376
 .899 8.440
 GRADIENT -.00211

ALPHA 4.88400
 5.00730
 4.99370
 4.87320
 4.99920
 5.01490
 4.99600
 4.97880
 4.95950
 4.91990
 4.89940
 -.00211

ELEVON .02220
 .01960
 .01960
 .01710
 .01710
 .01710
 .01710
 .01710
 .01960
 .01710
 .01710
 -.00041

AILRON .00160
 -.00100
 -.00100
 -.00350
 -.00350
 -.00350
 -.00350
 -.00350
 -.00100
 -.00350
 -.00350
 -.00041

BOFLAP .00970
 .00000
 .00000
 .00000
 .00000
 .00000
 .00000
 .00970
 .00970
 .00000
 .00970
 .00169

SPOBRK 87.00000
 87.00000
 87.00000
 87.00000
 87.00000
 87.00000
 87.00000
 87.00000
 87.00000
 87.00000
 87.00000
 .00000

RUDDER -.10960
 -.12310
 -.12310
 -.12310
 -.13210
 -.13210
 -.13210
 -.14110
 -.15000
 -.16800
 -.17690
 -.00431

ELV-OB .01430
 .01430
 .01430
 .01430
 .01430
 .01430
 .01430
 .01430
 .01430
 .01430
 .01430
 .00000

AIL-IB .00040
 -.00470
 -.00470
 -.00980
 -.00980
 -.00980
 -.00980
 -.00980
 -.00470
 -.00980
 -.00980
 -.00085

AIL-OB .00270
 .00270
 .00270
 .00270
 .00270
 .00270
 .00270
 .00270
 .00270
 .00270
 .00270
 .00000

RUN NO. 474/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH .952 BETA -6.098
 .953 -1.971
 .951 -.924
 .950 .138
 .952 .644
 .951 1.157
 .951 2.211
 .950 3.255
 .949 4.297
 .948 6.373
 GRADIENT -.00159

ALPHA 4.92890
 4.93840
 4.99140
 4.97680
 5.01420
 5.01810
 5.00010
 4.97850
 4.95980
 4.92050
 .00159

ELEVON .02760
 .02250
 .02250
 .02710
 .02460
 .02710
 .02460
 .02460
 .02460
 .02460
 .02460
 .00027

AILRON -.00290
 -.00800
 -.00800
 -.00340
 -.00590
 -.00340
 -.00590
 -.00590
 -.00590
 -.00590
 -.00590
 .00027

BOFLAP .00000
 .00000
 .00000
 .00000
 .00000
 .00000
 .00000
 .00000
 .00000
 .00000
 .00970
 .00000

SPOBRK 87.00000
 87.00000
 87.00000
 87.00000
 87.00000
 87.00000
 87.00000
 87.00000
 87.00000
 87.00000
 87.00000
 .00000

RUDDER -.06240
 -.11640
 -.12310
 -.09620
 -.10290
 -.09620
 -.10290
 -.10290
 -.10960
 -.11640
 -.13210
 .00061

ELV-OB .01000
 .01000
 .01000
 .01430
 .01430
 .01430
 .01430
 .01430
 .01430
 .01430
 .01430
 .00071

AIL-IB -.00440
 -.01460
 -.01460
 -.00950
 -.01460
 -.00950
 -.01460
 -.01460
 -.01460
 -.01460
 -.01460
 -.00015

AIL-OB -.00150
 -.00150
 -.00150
 .00270
 .00270
 .00270
 .00270
 .00270
 .00270
 .00270
 .00270
 .00070

PARAMETRIC DATA

ALPHA = .000
 AILRON = .000
 SPOBRK = 87.200
 RN/L = 5.000
 ELEVON = .000
 BOFLAP = .000
 RUDDER = .000

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(C2F088) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPOBRK = 87.200 RUDDER = .000
 RN/L = 5.000

RUN NO. 487/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|---------|---------|---------|---------|----------|---------|---------|--------|---------|--------|
| 1.103 | -6.118 | 4.99440 | .01710 | -.00350 | .00970 | 87.00000 | -.11640 | .02000 | .01430 | -.00980 | .00270 |
| 1.102 | -1.959 | 4.96730 | .01960 | -.00100 | .00000 | 87.00000 | -.15000 | .02500 | .01430 | -.00470 | .00270 |
| 1.103 | -.901 | 4.96940 | .01920 | -.00140 | .00000 | 87.00000 | -.14110 | .02000 | .01850 | -.00980 | .00700 |
| 1.102 | .080 | 5.08720 | .01710 | -.00350 | .00970 | 87.00000 | -.11640 | .02000 | .01430 | -.00980 | .00270 |
| 1.102 | .559 | 5.01810 | .01680 | -.00110 | .00970 | 87.00000 | -.11640 | .01500 | .01850 | -.00480 | .00700 |
| 1.101 | 1.053 | 4.98360 | .01920 | -.00140 | .00970 | 87.00000 | -.11640 | .02000 | .01850 | -.00980 | .00700 |
| 1.103 | 2.108 | 4.98250 | .01420 | -.00150 | .00970 | 87.00000 | -.12310 | .00990 | .01850 | -.00990 | .00700 |
| 1.101 | 3.146 | 4.98610 | .01420 | -.00150 | .00000 | 87.00000 | -.12310 | .00990 | .02700 | -.00990 | .01550 |
| 1.102 | 4.191 | 4.98770 | .01850 | -.00280 | .00000 | 87.00000 | -.12310 | .00990 | .01850 | -.00990 | .00700 |
| 1.101 | 6.289 | 4.98140 | .01420 | -.00150 | .00000 | 87.00000 | -.11640 | .00990 | .01850 | -.00990 | .00700 |
| | GRADIENT | -.00075 | -.00055 | .00043 | -.00011 | -.00000 | .00355 | -.00261 | .00148 | -.00062 | .00149 |

RUN NO. 488/ 0

RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|---------|---------|---------|---------|----------|---------|---------|---------|---------|---------|
| 1.202 | -6.099 | 4.99110 | .01540 | -.00520 | .00000 | 87.00000 | -.10960 | .02500 | .00580 | -.00470 | .00580 |
| 1.200 | -1.952 | 4.97060 | .01750 | -.00310 | .00000 | 87.00000 | -.13210 | .02500 | .01000 | -.00470 | .00150 |
| 1.199 | -.900 | 4.96780 | .01960 | -.00100 | .00000 | 87.00000 | -.14110 | .02500 | .01430 | -.00470 | .00270 |
| 1.199 | .171 | 5.09650 | .01960 | -.00100 | .00000 | 87.00000 | -.10290 | .02500 | .01430 | -.00470 | .00270 |
| 1.201 | .625 | 4.92370 | .01960 | -.00100 | .00970 | 87.00000 | -.10290 | .02500 | .01430 | -.00470 | .00270 |
| 1.200 | 1.140 | 4.92790 | .01960 | -.00100 | .00000 | 87.00000 | -.10290 | .02500 | .00580 | -.00470 | .00580 |
| 1.199 | 2.189 | 4.94170 | .01540 | -.00520 | .00000 | 87.00000 | -.10290 | .02500 | .01000 | -.00980 | .00150 |
| 1.198 | 3.237 | 4.92560 | .01500 | -.00560 | .00000 | 87.00000 | -.10960 | .02000 | .01000 | -.00980 | .00150 |
| 1.199 | 4.282 | 4.91220 | .01500 | -.00560 | .00000 | 87.00000 | -.12310 | .02000 | .01000 | -.01470 | .00150 |
| 1.197 | 6.350 | 4.98720 | .01750 | -.00910 | .00970 | 87.00000 | -.13210 | .02490 | .01000 | -.01470 | .00150 |
| | GRADIENT | -.01335 | -.00075 | -.00075 | -.00015 | .00000 | .00287 | -.00088 | -.00063 | -.00090 | -.00062 |

RUN NO. 504/ 0

RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|---------|---------|---------|--------|----------|---------|---------|---------|---------|---------|
| 1.402 | -6.132 | 5.06480 | .01290 | -.00270 | .00970 | 87.00000 | -.12310 | .02010 | .00580 | .00030 | .00580 |
| 1.406 | -1.977 | 5.06580 | .01290 | -.00270 | .00000 | 87.00000 | -.06920 | .02010 | .00580 | .00030 | .00580 |
| 1.404 | -.926 | 5.05380 | .01580 | -.00560 | .00000 | 87.00000 | -.08940 | .02010 | .01150 | .00030 | .01150 |
| 1.404 | .150 | 5.09770 | .01580 | -.00560 | .00000 | 87.00000 | -.08940 | .02010 | .01150 | .00030 | .01150 |
| 1.403 | .628 | 5.08420 | .01580 | -.00560 | .00000 | 87.00000 | -.08270 | .02010 | .01150 | .00030 | .01150 |
| 1.403 | 1.154 | 5.06940 | .01330 | -.00820 | .01940 | 87.00000 | -.08270 | .01500 | .01150 | -.00480 | .01150 |
| 1.403 | 2.213 | 5.04780 | .01070 | -.01070 | .00970 | 87.00000 | -.10290 | .00990 | .01150 | -.00990 | .01150 |
| 1.403 | 3.269 | 5.02990 | .00780 | -.00780 | .01940 | 87.00000 | -.12310 | .00990 | .00580 | -.00990 | .01080 |
| 1.402 | 4.318 | 5.01810 | .00530 | -.01040 | .01940 | 87.00000 | -.12310 | .00990 | .00070 | -.00990 | .01080 |
| 1.402 | 6.404 | 4.98750 | .00530 | -.01040 | .01940 | 87.00000 | -.15900 | .00990 | .00070 | -.00990 | .01080 |
| | GRADIENT | -.00867 | -.00155 | -.00113 | .00375 | .00000 | -.00843 | -.00214 | -.00095 | -.00214 | -.00010 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(C2F089) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 87.200 RUDDER = .000
 RN/L = 5.000

RUN NO. 455/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|----------|---------|---------|--------|----------|---------|---------|--------|---------|--------|
| .598 | -6.037 | 10.18100 | .01460 | -.00100 | .01940 | 87.00000 | -.12310 | .01500 | .01430 | -.00480 | .00270 |
| .598 | -1.985 | 10.19600 | .01460 | -.00100 | .00000 | 87.00000 | -.12310 | .01500 | .01430 | -.00480 | .00270 |
| .597 | -.968 | 10.19000 | .01460 | -.00100 | .00970 | 87.00000 | -.12310 | .02010 | .01430 | -.00480 | .00270 |
| .598 | .050 | 10.19800 | .01720 | -.00150 | .00970 | 87.00000 | -.12310 | .01500 | .01430 | -.00480 | .00270 |
| .598 | .556 | 10.19500 | .01460 | -.00100 | .00970 | 87.00000 | -.12310 | .01500 | .01430 | -.00480 | .00270 |
| .598 | 1.057 | 10.18500 | .01460 | -.00100 | .00970 | 87.00000 | -.12310 | .01500 | .01430 | -.00480 | .00270 |
| .597 | 2.098 | 10.19600 | .01460 | -.00100 | .00970 | 87.00000 | -.12310 | .01500 | .01430 | -.00480 | .00270 |
| .598 | 3.113 | 10.20600 | .01460 | -.00100 | .00970 | 87.00000 | -.12310 | .01500 | .01430 | -.00480 | .00270 |
| .598 | 4.154 | 10.22400 | .01460 | -.00360 | .00000 | 87.00000 | -.13210 | .00990 | .01430 | -.00990 | .00270 |
| .598 | 6.220 | 10.22400 | .01210 | -.00110 | .00970 | 87.00000 | -.12310 | .01500 | .01850 | -.00480 | .00700 |
| .598 | 8.285 | 10.21200 | .01680 | -.00110 | .00970 | 87.00000 | -.12310 | .01500 | .00000 | -.00016 | .00000 |
| | GRADIENT | .00404 | -.00008 | -.00008 | .00099 | .00000 | -.00096 | -.00016 | .00000 | -.00016 | .00000 |

RUN NO. 469/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|----------|---------|---------|--------|----------|---------|---------|--------|---------|---------|
| .902 | -6.127 | 9.85410 | .02250 | -.00800 | .00000 | 87.00000 | -.12310 | .03500 | .01000 | -.01460 | -.00150 |
| .903 | -2.025 | 10.02700 | .02040 | -.01020 | .00000 | 87.00000 | -.15000 | .03500 | .00580 | -.01460 | -.00580 |
| .901 | -.995 | 10.03200 | .02460 | -.00590 | .00000 | 87.00000 | -.09620 | .03500 | .01430 | -.01460 | .00270 |
| .901 | .049 | 10.04300 | .02250 | -.00800 | .00000 | 87.00000 | -.10290 | .03500 | .01000 | -.01460 | -.00150 |
| .903 | .550 | 10.05000 | .02250 | -.00800 | .00000 | 87.00000 | -.10290 | .03500 | .01000 | -.01460 | -.00150 |
| .901 | 1.059 | 10.03000 | .01990 | -.01060 | .00000 | 87.00000 | -.10960 | .02990 | .01000 | -.01970 | -.00150 |
| .901 | 2.107 | 10.04900 | .01990 | -.01060 | .00000 | 87.00000 | -.11640 | .02990 | .01000 | -.01970 | -.00150 |
| .902 | 3.150 | 10.07000 | .01950 | -.01100 | .00000 | 87.00000 | -.07590 | .02480 | .01430 | -.02480 | .00270 |
| .899 | 4.208 | 10.08500 | .02250 | -.00800 | .00000 | 87.00000 | -.08270 | .03500 | .01000 | -.01460 | -.00150 |
| .900 | 6.298 | 10.08500 | .02460 | -.00590 | .00000 | 87.00000 | -.10960 | .03500 | .01430 | -.01460 | .00270 |
| .902 | 8.379 | 10.08000 | .02460 | -.00590 | .00000 | 87.00000 | -.13210 | .03500 | .01430 | -.01460 | .00270 |
| | GRADIENT | .00873 | -.00024 | -.00023 | .00000 | .00000 | .00780 | -.00091 | .00044 | -.00091 | .00045 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = .000
AILRON = .000 BOFLAP = .000
SPOBRK = 87.200 RUDDER = .000
RN/L = 5.000

RUN NO. 480/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|----------|----------|--------|---------|---------|----------|---------|--------|--------|---------|---------|
| .950 | -6.126 | 10.04800 | .01750 | -.00310 | .00970 | 87.00000 | -.06240 | .02500 | .01000 | -.00470 | -.00150 |
| .953 | -2.032 | 10.10200 | .01240 | -.00820 | .00000 | 87.00000 | -.12310 | .01490 | .01000 | -.01490 | -.00150 |
| .950 | -.997 | 10.09800 | .01500 | -.00560 | .00000 | 87.00000 | -.13210 | .02000 | .01000 | -.00980 | -.00150 |
| .952 | .049 | 10.10800 | .01500 | -.00560 | .00970 | 87.00000 | -.11640 | .02000 | .01000 | -.00980 | -.00150 |
| .952 | .554 | 10.10400 | .01500 | -.00560 | .00970 | 87.00000 | -.10290 | .02000 | .01000 | -.00980 | -.00150 |
| .951 | 1.064 | 10.08100 | .01500 | -.00560 | .00970 | 87.00000 | -.10290 | .02000 | .01000 | -.00980 | -.00150 |
| .951 | 2.134 | 10.01200 | .01500 | -.00560 | .00970 | 87.00000 | -.09620 | .02000 | .01000 | -.00980 | -.00150 |
| .950 | 3.159 | 10.01100 | .01500 | -.00560 | .00000 | 87.00000 | -.10960 | .02000 | .01000 | -.00980 | -.00150 |
| .950 | 4.219 | 10.02900 | .01500 | -.00560 | .00000 | 87.00000 | -.12310 | .02000 | .01000 | -.00980 | -.00150 |
| .948 | 6.309 | 10.01700 | .01500 | -.00560 | .00000 | 87.00000 | -.15900 | .02000 | .01000 | -.00980 | -.00150 |
| .950 | 8.385 | 10.00400 | .01240 | -.00820 | .00000 | 87.00000 | -.11640 | .01490 | .01000 | -.01490 | -.00150 |
| | GRADIENT | -.01727 | .00026 | .00026 | -.00009 | .00000 | .00203 | .00051 | .00000 | .00051 | -.00000 |

RUN NO. 507/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|----------|--------|---------|--------|----------|---------|---------|--------|---------|---------|
| 1.199 | -6.133 | 10.15900 | .01460 | -.00100 | .01940 | 87.00000 | .04540 | .01500 | .01430 | -.00480 | .00270 |
| 1.203 | -2.042 | 10.21900 | .01250 | -.00320 | .00000 | 87.00000 | -.11640 | .01500 | .01000 | -.00480 | -.00150 |
| 1.202 | -1.005 | 10.22800 | .01500 | -.00060 | .00970 | 87.00000 | -.13210 | .02010 | .01000 | .00030 | -.00150 |
| 1.199 | .050 | 10.25100 | .01830 | -.00310 | .00970 | 87.00000 | -.13210 | .02520 | .01150 | .00540 | -.01150 |
| 1.200 | .554 | 10.25100 | .01550 | -.00020 | .00970 | 87.00000 | -.13210 | .02520 | .00580 | .00540 | -.00580 |
| 1.200 | 1.069 | 10.23200 | .01790 | -.00350 | .02910 | 87.00000 | -.13210 | .02010 | .01580 | .00030 | -.00730 |
| 1.198 | 2.125 | 10.24700 | .01790 | -.00110 | .03880 | 87.00000 | -.13210 | .01500 | .01850 | -.00480 | .00700 |
| 1.199 | 3.174 | 10.26000 | .01680 | -.00270 | .02910 | 87.00000 | -.12310 | .02010 | .00580 | .00030 | -.00580 |
| 1.196 | 4.234 | 10.27400 | .01290 | -.00270 | .02910 | 87.00000 | -.12310 | .02010 | .01000 | .00030 | -.00150 |
| 1.197 | 6.328 | 10.26400 | .01500 | -.00060 | .01940 | 87.00000 | -.15900 | .01500 | .01000 | -.00480 | -.00150 |
| 1.197 | 8.407 | 10.25300 | .01250 | -.00320 | .00970 | 87.00000 | -.15900 | .01500 | .01000 | -.00480 | -.00150 |
| 1.198 | GRADIENT | .00754 | .00015 | .00013 | .00575 | .00000 | -.00061 | -.00008 | .00037 | -.00008 | .00031 |

DATE 1Q MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(C2F089) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPOBRK = 87.200 RUDDER = .000
 RN/L = 5.000

RUN NO. 496/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | AIL-1B | ELV-0B | AIL-0B |
|-------|----------|----------|---------|---------|---------|----------|---------|---------|---------|---------|---------|
| 1.404 | -6.177 | 10.17000 | .01040 | -.00530 | .00970 | 87.00000 | -.14110 | .01500 | -.00480 | .00580 | -.00580 |
| 1.409 | -2.049 | 10.21500 | .01040 | -.00530 | .00970 | 87.00000 | -.18590 | .01500 | -.00480 | .00580 | -.00580 |
| 1.401 | -1.013 | 10.23200 | .01040 | -.00530 | .00970 | 87.00000 | -.19490 | .01500 | -.00480 | .00580 | -.00580 |
| 1.400 | .044 | 10.24800 | .01290 | -.00780 | .01940 | 87.00000 | -.21280 | .01500 | -.00480 | .01000 | -.00580 |
| 1.399 | .554 | 10.25900 | .01250 | -.00320 | .01940 | 87.00000 | -.21280 | .01500 | -.00480 | .01000 | -.00580 |
| 1.399 | 1.070 | 10.23500 | .01040 | -.00530 | .00970 | 87.00000 | -.16800 | .01500 | -.00480 | .00580 | -.00580 |
| 1.400 | 2.131 | 10.25900 | .01040 | -.00530 | .00970 | 87.00000 | -.13210 | .01500 | -.00480 | .00580 | -.00580 |
| 1.399 | 3.184 | 10.27500 | .01040 | -.00530 | .00970 | 87.00000 | -.14110 | .01500 | -.00480 | .00580 | -.00580 |
| 1.400 | 4.248 | 10.28800 | .01040 | -.00530 | .00970 | 87.00000 | -.16800 | .01500 | -.00480 | .00580 | -.00580 |
| 1.400 | 6.355 | 10.28900 | .01040 | -.00530 | .00970 | 87.00000 | -.15900 | .01500 | -.00480 | .01000 | -.00580 |
| 1.400 | 8.446 | 10.27900 | .01250 | -.00320 | .00970 | 87.00000 | -.01027 | .01500 | -.00480 | .01000 | -.00580 |
| 1.400 | GRADIENT | .01055 | -.00011 | .00005 | -.00107 | .00000 | | -.00016 | .00016 | -.00006 | -.00006 |

AMES 118-1-11 OAI45A 01

(C2F0C0) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 15.000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPOBRK = 87.200 RUDDER = .000
 RN/L = 5.000

RUN NO. 456/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | AIL-1B | ELV-0B | AIL-0B |
|------|----------|----------|---------|---------|--------|----------|---------|--------|---------|---------|---------|
| .598 | -6.082 | 15.22700 | .01250 | -.00320 | .00970 | 87.00000 | -.12310 | .01500 | -.00480 | .01000 | -.00150 |
| .597 | -1.993 | 15.27800 | .01460 | -.00100 | .00970 | 87.00000 | -.12310 | .01500 | -.00480 | .01430 | -.00270 |
| .598 | -.957 | 15.28200 | .01460 | -.00100 | .00970 | 87.00000 | -.12310 | .01500 | -.00480 | .01430 | -.00270 |
| .597 | .089 | 15.28400 | .01500 | -.00650 | .00970 | 87.00000 | -.12310 | .00990 | -.00990 | .02000 | -.00270 |
| .598 | .595 | 15.28100 | .01210 | -.00360 | .00970 | 87.00000 | -.12310 | .00990 | -.00990 | .01430 | -.00270 |
| .598 | 1.106 | 15.27300 | .01210 | -.00360 | .00970 | 87.00000 | -.12310 | .00990 | -.00990 | .01430 | -.00270 |
| .597 | 2.130 | 15.25100 | .01210 | -.00360 | .00970 | 87.00000 | -.12310 | .01500 | -.00480 | .01430 | -.00270 |
| .598 | 3.165 | 15.25000 | .01460 | -.00100 | .01940 | 87.00000 | -.12310 | .01500 | -.00480 | .01430 | -.00270 |
| .597 | 4.209 | 15.24200 | .01460 | -.00100 | .00970 | 87.00000 | -.12310 | .01500 | -.00480 | .01430 | -.00270 |
| .597 | 6.271 | 15.22100 | .01460 | -.00100 | .00970 | 87.00000 | -.13210 | .01500 | -.00480 | .01850 | -.00700 |
| .599 | 8.339 | 15.17300 | .01680 | .00110 | .00970 | 87.00000 | -.00000 | .01500 | -.00480 | .00018 | -.00018 |
| .599 | GRADIENT | -.00726 | -.00007 | .00011 | .00171 | -.00000 | | .00004 | .00004 | -.00018 | .00018 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 15.000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 87.200 RUDDER = .000
RN/L = 5.000

RUN NO. 470/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | ELV-OB | AIL-1B | AIL-OB |
|------|----------|----------|---------|---------|---------|----------|---------|---------|---------|---------|---------|
| .902 | -6.180 | 15.02900 | .0210 | -.00850 | .00000 | 87.00000 | -.08940 | .02990 | .01430 | -.01970 | .00270 |
| .901 | -2.033 | 15.08400 | .02460 | -.00590 | .00000 | 87.00000 | -.10960 | .03500 | .01430 | -.01460 | .00270 |
| .901 | -.987 | 15.08900 | .02460 | -.00590 | .00000 | 87.00000 | -.11640 | .03500 | .01430 | -.01460 | .00270 |
| .901 | .067 | 15.09500 | .02210 | -.00850 | .00970 | 87.00000 | -.12310 | .02990 | .01430 | -.01970 | .00270 |
| .902 | .584 | 15.09900 | .02210 | -.00850 | .00000 | 87.00000 | -.12310 | .02990 | .01430 | -.01970 | .00270 |
| .899 | 1.099 | 15.08600 | .02460 | -.00590 | .00000 | 87.00000 | -.12310 | .03500 | .01430 | -.01460 | .00270 |
| .902 | 2.135 | 15.07300 | .02460 | -.00590 | .00000 | 87.00000 | -.11640 | .03500 | .01000 | -.01460 | .00270 |
| .902 | 3.182 | 15.07200 | .02250 | -.00800 | .00000 | 87.00000 | -.08270 | .02990 | .01000 | -.01970 | .00150 |
| .901 | 4.238 | 15.07500 | .01990 | -.01060 | .00000 | 87.00000 | -.08270 | .03500 | .01000 | -.01460 | .00150 |
| .903 | 6.324 | 15.06100 | .02250 | -.00800 | .00000 | 87.00000 | -.07590 | .02990 | .01000 | -.01970 | .00150 |
| .900 | 8.413 | 15.01800 | .01990 | -.01060 | .00000 | 87.00000 | -.07590 | .02990 | .01000 | -.01970 | .00150 |
| | GRADIENT | -.00306 | -.00052 | -.00052 | -.00031 | -.00000 | .00289 | -.00030 | -.00075 | -.00030 | -.00073 |

RUN NO. 508/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | ELV-OB | AIL-1B | AIL-OB |
|-------|----------|----------|--------|---------|---------|----------|---------|--------|--------|---------|--------|
| 1.198 | -6.183 | 15.20400 | .01580 | -.00560 | .01940 | 87.00000 | -.12310 | .02010 | .01150 | .00030 | .01150 |
| 1.202 | -2.053 | 15.29300 | .01330 | -.00820 | .00970 | 87.00000 | -.15900 | .01500 | .01150 | -.00480 | .01150 |
| 1.200 | -1.002 | 15.30100 | .01330 | -.00820 | .00970 | 87.00000 | -.12310 | .02010 | .01150 | -.00480 | .01150 |
| 1.199 | .061 | 15.31500 | .01580 | -.00560 | .00000 | 87.00000 | -.12310 | .02010 | .01150 | .00030 | .01150 |
| 1.199 | .575 | 15.32400 | .01290 | -.00270 | .00000 | 87.00000 | -.12310 | .02010 | .00580 | .00030 | .00580 |
| 1.198 | 1.103 | 15.31200 | .01830 | -.00310 | .00000 | 87.00000 | -.12310 | .02520 | .01150 | .00540 | .01150 |
| 1.197 | 2.145 | 15.29500 | .01830 | -.00310 | .00000 | 87.00000 | -.12310 | .02520 | .01150 | .00540 | .01150 |
| 1.198 | 3.198 | 15.29000 | .01830 | -.00310 | .00000 | 87.00000 | -.12310 | .02520 | .01150 | .00540 | .01150 |
| 1.199 | 4.254 | 15.29000 | .01830 | -.00310 | .00000 | 87.00000 | -.12310 | .02520 | .00580 | .00540 | .00580 |
| 1.199 | 6.344 | 15.27400 | .01550 | -.00020 | .01940 | 87.00000 | -.12310 | .02520 | .00580 | .00540 | .00580 |
| 1.197 | 8.434 | 15.23700 | .01550 | -.00020 | .01940 | 87.00000 | -.12310 | .02520 | .00008 | .00191 | .00008 |
| | GRADIENT | -.00208 | .00098 | .00091 | -.00160 | .00000 | .00356 | .00191 | .00008 | .00191 | .00008 |

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OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(CF0C0) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA =
 AILRON =
 SPDBRK =
 RN/L =
 ELEVON = .000
 BDFLAP = .000
 RUDDER = .000
 15.000
 87.200
 5.000

RUN NO. 497/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|----------|---------|---------|---------|----------|---------|--------|--------|---------|---------|
| 1.391 | -6.238 | 15.20300 | .01290 | -.00270 | .00970 | 87.00000 | .03870 | .02010 | .00580 | .00030 | -.00580 |
| 1.397 | -2.069 | 15.29600 | .01040 | -.00530 | .00970 | 87.00000 | .01170 | .01500 | .00580 | -.00480 | -.00580 |
| 1.399 | -1.006 | 15.30000 | .01040 | -.00530 | .00970 | 87.00000 | -.00180 | .01500 | .00580 | -.00480 | -.00580 |
| 1.398 | .059 | 15.31200 | .01040 | -.00530 | .00970 | 87.00000 | -.00180 | .01500 | .00580 | -.00480 | -.00580 |
| 1.396 | .586 | 15.30500 | .01040 | -.00530 | .00970 | 87.00000 | -.00180 | .01500 | .00580 | -.00480 | -.00580 |
| 1.396 | 1.105 | 15.28800 | .01040 | -.00530 | .00000 | 87.00000 | -.00180 | .01500 | .00580 | -.00480 | -.00580 |
| 1.395 | 2.156 | 15.26000 | .01040 | -.00530 | .00970 | 87.00000 | -.00180 | .01500 | .00580 | -.00480 | -.00580 |
| 1.394 | 3.210 | 15.25300 | .01040 | -.00530 | .00970 | 87.00000 | -.00180 | .01500 | .00580 | -.00480 | -.00580 |
| 1.393 | 4.276 | 15.25200 | .01040 | -.00530 | .00970 | 87.00000 | -.00180 | .01500 | .00580 | -.00480 | -.00580 |
| 1.391 | 6.378 | 15.23600 | .01040 | -.00530 | .00970 | 87.00000 | -.00180 | .01500 | .00580 | -.00480 | -.00580 |
| 1.390 | 8.474 | 15.20600 | .01040 | -.00530 | .00970 | 87.00000 | -.00180 | .01500 | .00580 | -.00480 | -.00580 |
| | GRADIENT | -.00968 | -.00000 | -.00000 | -.00034 | .00000 | -.00669 | .00000 | .00000 | .00000 | .00000 |

AMES 118-1-11 OAI45A 01

(CF0C1) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA =
 ELEVON =
 BDFLAP =
 RN/L =
 BETA = .000
 AILRON = .000
 SPDBRK = 87.200
 .000
 5.000

RUN NO. 453/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|---------|--------|----------|---------|--------|---------|---------|
| .598 | -10.072 | .01760 | .01500 | -.00560 | .01940 | 87.00000 | .02000 | .01000 | -.00980 | -.00150 |
| .598 | -5.111 | .01440 | .01500 | -.00560 | .01940 | 87.00000 | .02000 | .01000 | -.00980 | -.00150 |
| .598 | -2.524 | .00900 | .01500 | -.00560 | .01940 | 87.00000 | .02000 | .01000 | -.00980 | -.00150 |
| .598 | -.096 | .00290 | .01260 | -.00320 | .01940 | 87.00000 | .01500 | .01430 | -.00480 | .00270 |
| .598 | 2.393 | .00110 | .00860 | -.00100 | .01940 | 87.00000 | .00990 | .01430 | -.00480 | .00270 |
| .598 | 4.977 | .00670 | .00670 | -.00360 | .02910 | 87.00000 | .00990 | .01430 | -.00480 | .00270 |
| .598 | 9.828 | .00330 | .00330 | -.00100 | .02910 | 87.00000 | .00990 | .01430 | -.00480 | .00270 |
| .598 | GRADIENT | -.00077 | -.00026 | .00032 | .00118 | -.00000 | -.00121 | .00069 | -.00002 | .00067 |

(C2F0C1) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = .000
ELEVON = .000
BDFLAP = .000
RN/L = 5.00
BETA = .000
AILRON = .000
SPOBRK = 87.200

RUN NO. 471/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|--------|---------|--------|----------|--------|--------|---------|---------|
| .902 | -10.072 | -23580 | .01910 | .01780 | -.01270 | .00000 | 87.00000 | .02990 | .00580 | -.01970 | -.00580 |
| .902 | -5.126 | -23550 | .01260 | .01780 | -.01270 | .00000 | 87.00000 | .02990 | .00580 | -.01970 | -.00580 |
| .902 | -2.507 | -23530 | .00850 | .01780 | -.01270 | .00000 | 87.00000 | .02990 | .00580 | -.01970 | -.00580 |
| .902 | -1.103 | -23600 | .00570 | .01780 | -.01270 | .00000 | 87.00000 | .02990 | .00580 | -.01970 | -.00580 |
| .902 | 2.401 | -23610 | .00330 | .01780 | -.01270 | .00000 | 87.00000 | .02990 | .00580 | -.01970 | -.00580 |
| .901 | 4.977 | -23830 | .00000 | .01780 | -.01270 | .00000 | 87.00000 | .02990 | .00580 | -.01970 | -.00580 |
| .902 | 9.828 | -24000 | -.00660 | .01780 | -.01270 | .00000 | 87.00000 | .02990 | .00580 | -.01970 | -.00580 |
| | GRADIENT | -.00037 | -.00112 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 |

RUN NO. 482/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|--------|---------|--------|----------|--------|--------|---------|---------|
| .951 | -10.054 | -17150 | .02340 | .01540 | -.00520 | .01940 | 87.00000 | .02500 | .00580 | -.00470 | -.00580 |
| .952 | -5.111 | -16790 | .01610 | .01540 | -.00520 | .00970 | 87.00000 | .02500 | .00580 | -.00470 | -.00580 |
| .952 | -2.532 | -16790 | .01200 | .01540 | -.00520 | .01940 | 87.00000 | .02500 | .00580 | -.00470 | -.00580 |
| .952 | -1.110 | -16830 | .00820 | .01540 | -.00520 | .01940 | 87.00000 | .02500 | .00580 | -.00470 | -.00580 |
| .951 | 2.410 | -17000 | .00470 | .01540 | -.00520 | .01940 | 87.00000 | .02500 | .00580 | -.00470 | -.00580 |
| .952 | 4.959 | -17050 | .00080 | .01540 | -.00520 | .02910 | 87.00000 | .02500 | .00580 | -.00470 | -.00580 |
| .952 | 9.828 | -17410 | -.00670 | .01540 | -.00520 | .01940 | 87.00000 | .02500 | .00580 | -.00470 | -.00580 |
| | GRADIENT | -.00038 | -.00148 | .00000 | .00000 | .00117 | .00000 | .00000 | .00000 | .00000 | .00000 |

RUN NO. 509/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|---------|---------|--------|---------|--------|----------|---------|--------|--------|---------|
| 1.204 | -10.063 | -.06530 | .00720 | .01290 | -.00270 | .00970 | 87.00000 | .02010 | .00580 | .00030 | -.00580 |
| 1.200 | -5.111 | -.07000 | .00430 | .01550 | -.00020 | .00000 | 87.00000 | .02520 | .00580 | .00540 | -.00580 |
| 1.199 | -2.524 | -.06900 | .00270 | .01550 | -.00020 | .00970 | 87.00000 | .02520 | .00580 | .00540 | -.00580 |
| 1.200 | -.089 | -.06840 | .00120 | .01550 | -.00020 | .01940 | 87.00000 | .02520 | .00580 | .00540 | -.00580 |
| 1.199 | 2.410 | -.06940 | .00010 | .02050 | -.00090 | .00970 | 87.00000 | .02520 | .00580 | .00540 | -.00580 |
| 1.200 | 4.949 | -.06770 | -.00100 | .01550 | -.00020 | .02910 | 87.00000 | .02520 | .00580 | .00540 | -.00580 |
| 1.199 | 9.804 | -.07070 | -.00490 | .01760 | -.00190 | .02910 | 87.00000 | .02520 | .00580 | .00540 | -.00580 |
| | GRADIENT | .00012 | -.00049 | .00020 | -.00003 | .00195 | -.00000 | -.00000 | .00039 | .00000 | -.00006 |

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OAI45 TABULATED FORCE DATA

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(CEFOC2) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BOFLAP = .000 SPD8RK = 87.200
 RN/L = 5.000

RUN NO. 452/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPD8RK | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|--------|---------|---------|----------|---------|---------|---------|
| .597 | -10.045 | 5.07060 | .03050 | .01500 | -.00560 | .01940 | 87.00000 | .01000 | -.00980 | -.00150 |
| .596 | -5.141 | 5.06990 | .02700 | .01500 | -.00560 | .01940 | 87.00000 | .01000 | -.00980 | -.00150 |
| .597 | -2.499 | 5.06860 | .02520 | .01500 | -.00560 | .01940 | 87.00000 | .01000 | -.00980 | -.00150 |
| .597 | -.089 | 5.07130 | .02260 | .01500 | -.00560 | .02910 | 87.00000 | .01000 | -.00980 | -.00150 |
| .598 | 2.410 | 5.07230 | .02040 | .01500 | -.00560 | .01940 | 87.00000 | .01000 | -.00980 | -.00150 |
| .598 | 4.949 | 5.07290 | .01830 | .01500 | -.00560 | .01940 | 87.00000 | .01000 | -.00980 | -.00150 |
| .598 | 9.804 | 5.07420 | .01410 | .01500 | -.00560 | .01940 | 87.00000 | .01000 | -.00980 | -.00150 |
| | GRADIENT | .00056 | -.00092 | .00000 | -.00000 | -.00040 | -.00000 | -.00000 | -.00000 | -.00000 |

RUN NO. 464/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPD8RK | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|--------|---------|--------|----------|--------|---------|---------|
| .901 | -10.063 | 4.91470 | .14930 | .01500 | -.00560 | .01940 | 87.00000 | .01000 | -.00980 | -.00150 |
| .902 | -5.119 | 4.98510 | .03840 | .01990 | -.01060 | .00970 | 87.00000 | .01000 | -.01970 | -.00150 |
| .902 | -2.532 | 4.98330 | .03490 | .01780 | -.01270 | .00000 | 87.00000 | .00580 | -.01970 | -.00580 |
| .902 | -.110 | 4.98580 | .03250 | .02460 | -.00590 | .00000 | 87.00000 | .01430 | -.01460 | .00270 |
| .902 | 2.419 | 4.98590 | .02960 | .02460 | -.00590 | .00000 | 87.00000 | .01430 | -.01460 | .00270 |
| .902 | 4.986 | 4.98380 | .02660 | .02210 | -.00850 | .00000 | 87.00000 | .01430 | -.01970 | .00270 |
| .902 | 9.812 | 4.98500 | .02030 | .02250 | -.00800 | .00970 | 87.00000 | .01000 | -.01460 | -.00150 |
| .903 | | .00006 | -.00111 | .00050 | .00049 | .00000 | .00000 | .00101 | -.00001 | .00101 |
| | GRADIENT | | | | | | | | | |

RUN NO. 475/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPD8RK | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|--------|---------|--------|----------|--------|---------|---------|
| .951 | -10.045 | 4.96930 | .17130 | .02970 | -.00080 | .00000 | 87.00000 | .01430 | -.00440 | -.00270 |
| .952 | -5.111 | 4.97460 | .15600 | .02970 | -.00080 | .00000 | 87.00000 | .01430 | -.00440 | -.00270 |
| .952 | -2.516 | 4.97560 | .14880 | .02970 | -.00080 | .00000 | 87.00000 | .01430 | -.00440 | -.00270 |
| .950 | -.110 | 4.97320 | .14350 | .02710 | -.00340 | .00000 | 87.00000 | .01430 | -.00950 | .00270 |
| .952 | 2.401 | 4.97620 | .13690 | .02970 | -.00080 | .00000 | 87.00000 | .01430 | -.00440 | .00270 |
| .951 | 4.986 | 4.97470 | .13000 | .02970 | -.00080 | .00000 | 87.00000 | .01430 | -.00440 | .00270 |
| .951 | 9.820 | 4.97520 | .11660 | .02970 | -.00080 | .00000 | 87.00000 | .01430 | -.00440 | .00270 |
| | GRADIENT | .00001 | -.00252 | .00011 | .00011 | .00000 | .00000 | .00000 | .00021 | .00000 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

(C2F0C2) (08 JUL 77)

AMES 118-1-11 0A145A 01

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

ALPHA = 5.000 BETA = .000
ELEVON = .000 AILRON = .000
BDFLAP = .000 SPDBRK = 87.200
RN/L = 5.000

RUN NO. 490/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|---------|---------|--------|---------|--------|----------|--------|---------|---------|
| 1.201 | -10.072 | 4.91390 | .04490 | .01540 | -.00520 | .00970 | 87.00000 | .00580 | -.00470 | -.00580 |
| 1.200 | -5.104 | 4.91470 | .04230 | .01540 | -.00520 | .00970 | 87.00000 | .00580 | -.00470 | -.00580 |
| 1.200 | -2.467 | 4.97520 | .03750 | .01540 | -.00520 | .00970 | 87.00000 | .00580 | -.00470 | -.00580 |
| 1.200 | -.069 | 4.97420 | .03560 | .01540 | -.00520 | .00970 | 87.00000 | .00580 | -.00470 | -.00580 |
| 1.199 | 2.410 | 4.97380 | .03390 | .01540 | -.00520 | .00970 | 87.00000 | .00580 | -.00470 | -.00580 |
| 1.200 | 4.931 | 4.97570 | .03200 | .01540 | -.00520 | .00970 | 87.00000 | .00580 | -.00470 | -.00580 |
| 1.201 | 9.804 | 4.97740 | .02990 | .01290 | -.00270 | .00970 | 87.00000 | .00580 | -.00470 | -.00580 |
| | GRADIENT | .00005 | -.00074 | .00000 | .00000 | .00078 | .00000 | .00000 | -.00000 | -.00000 |

RUN NO. 505/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|---------|---------|---------|---------|--------|----------|---------|---------|---------|
| 1.402 | -10.045 | 5.07810 | .16830 | .00780 | -.00780 | .01940 | 87.00000 | .00580 | -.00990 | -.00580 |
| 1.403 | -5.134 | 5.07960 | .16140 | .00780 | -.00780 | .00970 | 87.00000 | .00580 | -.00990 | -.00580 |
| 1.404 | -2.516 | 5.08100 | .15970 | .01580 | -.00560 | .00970 | 87.00000 | .01150 | .00030 | -.01150 |
| 1.404 | -.089 | 5.08090 | .15550 | .01580 | -.00560 | .00970 | 87.00000 | .01150 | .00030 | -.00580 |
| 1.403 | 2.367 | 5.08050 | .15310 | .01290 | -.00270 | .00970 | 87.00000 | .01150 | .00030 | -.01150 |
| 1.403 | 4.977 | 5.08100 | .14900 | .01580 | -.00560 | .01940 | 87.00000 | .01150 | .00030 | -.01150 |
| 1.404 | 9.828 | 5.08040 | .14510 | .01830 | -.00310 | .00970 | 87.00000 | .01150 | .00540 | -.01150 |
| | GRADIENT | -.00001 | -.00138 | -.00011 | .00011 | .00079 | .00000 | -.00022 | .00000 | .00022 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1195

AMES 118-1-11 OAI45A 01

(C2F0C3) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPOBRK = 87.200
 RN/L = 5.000

RUN NO. 454/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | ELV-OB | AIL-IB | AIL-OB |
|------|----------|----------|---------|---------|---------|--------|----------|---------|---------|---------|
| .597 | -10.089 | 10.17800 | .03950 | .02740 | .01170 | .01940 | 87.00000 | .03980 | -.00480 | .02820 |
| .597 | -5.126 | 10.17600 | .03620 | .02740 | .01170 | .01940 | 87.00000 | .03980 | -.00480 | .02820 |
| .598 | -2.516 | 10.17900 | .03400 | .02740 | .01170 | .01940 | 87.00000 | .03980 | -.00480 | .02820 |
| .597 | -1.116 | 10.17800 | .03250 | .02740 | .01170 | .01940 | 87.00000 | .03980 | -.00480 | .02820 |
| .597 | 2.401 | 10.17900 | .02980 | .02520 | .00460 | .01940 | 87.00000 | .03550 | -.01490 | .02400 |
| .598 | 4.977 | 10.18200 | .02800 | .02270 | .00700 | .01940 | 87.00000 | .03550 | -.00990 | .02400 |
| .598 | 9.844 | 10.18500 | .02450 | .02270 | .00700 | .01940 | 87.00000 | .03550 | -.00990 | .02400 |
| | GRADIENT | .00041 | -.00083 | -.00066 | -.00085 | .00000 | .00000 | -.00069 | -.00101 | -.00067 |

RUN NO. 472/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | ELV-OB | AIL-IB | AIL-OB |
|------|----------|----------|---------|---------|---------|--------|----------|---------|---------|---------|
| .900 | -10.063 | 10.03500 | .04210 | .02250 | -.00800 | .00000 | 87.00000 | .01000 | -.01460 | .00150 |
| .901 | -5.119 | 10.03800 | .03740 | .02250 | -.00800 | .00000 | 87.00000 | .01000 | -.01460 | .00150 |
| .902 | -2.507 | 10.04100 | .03460 | .02250 | -.00800 | .00000 | 87.00000 | .01000 | -.01460 | .00150 |
| .902 | -1.110 | 10.04000 | .03210 | .02250 | -.00800 | .00000 | 87.00000 | .01000 | -.01460 | .00150 |
| .903 | 2.384 | 10.04400 | .02900 | .02250 | -.00800 | .00000 | 87.00000 | .01000 | -.01460 | .00150 |
| .903 | 4.959 | 10.04300 | .02660 | .02040 | -.01020 | .00000 | 87.00000 | .00580 | -.01460 | .00580 |
| .902 | 9.796 | 10.04300 | .02210 | .02040 | -.01020 | .00000 | 87.00000 | .00580 | -.01460 | .00580 |
| | GRADIENT | .00040 | -.00109 | -.00026 | -.00027 | .00000 | .00000 | -.00051 | -.00000 | -.00052 |

RUN NO. 481/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | ELV-OB | AIL-IB | AIL-OB |
|------|----------|----------|---------|---------|---------|--------|----------|--------|---------|--------|
| .952 | -10.063 | 9.99840 | .05430 | .01290 | -.00780 | .00970 | 87.00000 | .00580 | -.00980 | .00580 |
| .951 | -5.119 | 9.99580 | .05000 | .01290 | -.00780 | .00970 | 87.00000 | .00580 | -.00980 | .00580 |
| .951 | -2.524 | 9.99720 | .04780 | .01290 | -.00780 | .00970 | 87.00000 | .00580 | -.00980 | .00580 |
| .953 | -1.116 | 10.00500 | .04460 | .01030 | -.01030 | .00970 | 87.00000 | .00580 | -.01490 | .00580 |
| .951 | 2.410 | 10.00100 | .04270 | .01240 | -.00820 | .00970 | 87.00000 | .01000 | -.01490 | .00580 |
| .951 | 4.977 | 10.00000 | .03970 | .01030 | -.01030 | .01940 | 87.00000 | .00580 | -.01490 | .00580 |
| .952 | 9.804 | 10.00400 | .03500 | .01030 | -.01030 | .00970 | 87.00000 | .00500 | -.01490 | .00580 |
| | GRADIENT | .00016 | -.00105 | -.00023 | -.00021 | .00117 | -.00000 | .00016 | -.00060 | .00017 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8100 INCHES YMRP = .0000 IN. Y0
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000
ELEVON = .000
BDFLAP = .000
RN/L = 5.00

BETA = .000
AILRON = .000
SPDBRK = 87.200

GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|----------|---------|--------|---------|--------|----------|--------|--------|--------|---------|
| 1.200 | -10.063 | 10.23500 | .03870 | .01550 | -.00020 | .00970 | 87.00000 | .02520 | .00580 | .00540 | -.00580 |
| 1.200 | -5.126 | 10.23700 | .03650 | .01830 | -.00310 | .00970 | 87.00000 | .02520 | .01150 | .00540 | -.01150 |
| 1.199 | -2.524 | 10.23800 | .03480 | .01550 | -.00020 | .00970 | 87.00000 | .02520 | .00580 | .00540 | -.00580 |
| 1.200 | -1.103 | 10.23800 | .03340 | .01550 | -.00020 | .01940 | 87.00000 | .02520 | .00580 | .00540 | -.00580 |
| 1.200 | 2.376 | 10.23800 | .03150 | .01830 | -.00310 | .00000 | 87.00000 | .02520 | .01150 | .00540 | -.01150 |
| 1.200 | 4.959 | 10.24100 | .02930 | .01830 | -.00310 | .02910 | 87.00000 | .02520 | .01150 | .00540 | -.01150 |
| 1.200 | 9.804 | 10.24000 | .02670 | .01830 | -.00310 | .01940 | 87.00000 | .02520 | .01150 | .00540 | -.01150 |
| 1.200 | GRADIENT | .00037 | -.00074 | .00045 | -.00046 | .00159 | .00000 | .00000 | .00091 | .00000 | -.00091 |

GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|----------|---------|--------|---------|---------|----------|---------|--------|--------|---------|
| 1.403 | -9.919 | 10.23500 | .04100 | .01500 | -.00060 | .03880 | 87.00000 | .02010 | .01000 | .00330 | -.00150 |
| 1.404 | -5.125 | 10.23300 | .03820 | .01760 | .00190 | .03880 | 87.00000 | .02520 | .01000 | .00540 | -.00150 |
| 1.405 | -2.516 | 10.23300 | .03700 | .01760 | .00190 | .02910 | 87.00000 | .02520 | .01000 | .00540 | -.00150 |
| 1.406 | -.062 | 10.23300 | .03520 | .01970 | .00410 | .01940 | 87.00000 | .02520 | .01430 | .00540 | .00270 |
| 1.404 | 2.401 | 10.23300 | .03400 | .01970 | .00410 | .00000 | 87.00000 | .02520 | .01430 | .00540 | .00270 |
| 1.404 | 4.959 | 10.23500 | .03240 | .01970 | .00410 | .00000 | 87.00000 | .02520 | .01430 | .00540 | .00270 |
| 1.403 | 9.820 | 10.23500 | .03030 | .01970 | .00410 | .00970 | 87.00000 | .02520 | .01430 | .00540 | .00270 |
| 1.403 | GRADIENT | .00024 | -.00060 | .00025 | .00026 | -.00427 | -.00000 | -.00000 | .00052 | .00000 | .00050 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1197

AMES 118-1-11 OAI45A 01

(CEFOC4) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA =
 ELEVON =
 BDFLAP =
 RN/L =
 15.000 BETA =
 .000 AILRON =
 .000 SPDBRK =
 5.000

RUN NO. 511/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|----------|---------|--------|---------|--------|----------|--------|--------|---------|---------|
| 1.197 | -10.054 | 15.27200 | .03150 | .01580 | -.00560 | .02910 | 87.00000 | .02010 | .01150 | .00030 | -.01150 |
| 1.199 | -5.126 | 15.26700 | .03000 | .01330 | -.00820 | .02910 | 87.00000 | .01500 | .01150 | -.00480 | -.01150 |
| 1.200 | -2.532 | 15.27000 | .02710 | .01580 | -.00560 | .02910 | 87.00000 | .02010 | .01150 | .00030 | -.01150 |
| 1.197 | -1.110 | 15.27300 | .02610 | .01580 | -.00560 | .03880 | 87.00000 | .02010 | .01150 | .00030 | -.01150 |
| 1.199 | 2.376 | 15.27500 | .02300 | .01830 | -.00810 | .02910 | 87.00000 | .02500 | .01150 | -.00470 | -.01150 |
| 1.199 | 4.959 | 15.27000 | .02290 | .01580 | -.00560 | .03880 | 87.00000 | .02010 | .01150 | .00030 | -.01150 |
| 1.199 | 9.812 | 15.27400 | .01880 | .01580 | -.00560 | .02910 | 87.00000 | .02010 | .01150 | .00030 | -.01150 |
| 1.200 | GRADIENT | .00007 | -.00053 | .00010 | -.00010 | .00078 | .00000 | .00019 | .00000 | -.00019 | .00000 |

RUN NO. 498/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|----------|--------|--------|---------|--------|----------|---------|--------|---------|---------|
| 1.397 | -10.107 | 15.31300 | .05970 | .00780 | -.00780 | .01940 | 87.00000 | .00990 | .00580 | -.00990 | -.00580 |
| 1.397 | -5.104 | 15.31000 | .05480 | .01290 | -.00270 | .02910 | 87.00000 | .02010 | .00580 | .00030 | -.00580 |
| 1.395 | -2.483 | 15.31700 | .05360 | .01040 | -.00030 | .01940 | 87.00000 | .01510 | .00580 | .00520 | -.00580 |
| 1.397 | -.096 | 15.31600 | .05360 | .01040 | -.00530 | .02910 | 87.00000 | .01500 | .00580 | -.00480 | -.00580 |
| 1.395 | 2.436 | 15.31700 | .05240 | .01040 | -.00530 | .01940 | 87.00000 | .01500 | .00580 | -.00480 | -.00580 |
| 1.394 | 4.977 | 15.32000 | .05430 | .01040 | -.00530 | .02910 | 87.00000 | .01500 | .00580 | -.00480 | -.00580 |
| 1.395 | 9.780 | 15.32000 | .04600 | .01040 | -.00530 | .02910 | 87.00000 | .01500 | .00580 | -.00480 | -.00580 |
| | GRADIENT | .00041 | .00004 | .00000 | -.00059 | .00077 | .00000 | -.00001 | .00000 | -.00119 | -.00000 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

(C2F0C5) (08 JUL 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 87.200 RUDDER = -5.000
RN/L = 5.000

RUN NO. 451/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | ELV-OB | AIL-1B | AIL-OB |
|------|----------|---------|--------|---------|--------|----------|----------|---------|--------|---------|---------|
| .597 | -5.027 | -.02120 | .01710 | -.00350 | .01940 | 87.00000 | -5.11130 | .02000 | .01430 | -.00980 | .00270 |
| .598 | -.035 | .00440 | .01710 | -.00350 | .01940 | 87.00000 | -5.11130 | .02000 | .01430 | -.00980 | .00270 |
| .597 | 2.523 | .00860 | .01710 | -.00350 | .01940 | 87.00000 | -5.10380 | .02000 | .01430 | -.00980 | .00270 |
| .596 | 5.042 | .03620 | .01710 | -.00350 | .01940 | 87.00000 | -5.09630 | .02000 | .01430 | -.00980 | .00270 |
| .595 | 7.088 | .02760 | .01500 | -.00560 | .01940 | 87.00000 | -5.11130 | .02000 | .01000 | -.00980 | -.00150 |
| .596 | 8.125 | .02990 | .01290 | -.00780 | .02910 | 87.00000 | -5.11130 | .02000 | .00580 | -.00980 | -.00580 |
| .595 | 10.188 | .03530 | .02560 | -.00500 | .02910 | 87.00000 | -5.11880 | .02000 | .03130 | -.00980 | .01970 |
| .597 | 12.232 | .03310 | .02350 | .00290 | .00970 | 87.00000 | -5.11880 | .02000 | .02700 | -.00980 | .00270 |
| .597 | 15.276 | .05030 | .01710 | -.00350 | .01940 | 87.00000 | -5.11880 | .02000 | .01430 | -.00980 | .00270 |
| .596 | GRADIENT | .00164 | .00000 | .00000 | .00000 | -.00000 | .00293 | -.00000 | .00000 | .00000 | .00000 |

RUN NO. 465/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | ELV-OB | AIL-1B | AIL-OB |
|------|----------|---------|--------|---------|--------|----------|----------|--------|--------|---------|--------|
| .902 | -5.257 | -.02590 | .02410 | -.00850 | .00000 | 87.00000 | -5.11880 | .02990 | .01430 | -.01970 | .00270 |
| .903 | .060 | -.00060 | .02460 | -.00590 | .00000 | 87.00000 | -5.11880 | .03500 | .01430 | -.01460 | .00270 |
| .904 | 2.478 | .01440 | .02460 | -.00590 | .00000 | 87.00000 | -5.10380 | .03500 | .01430 | -.01460 | .00270 |
| .902 | 4.957 | .03940 | .02460 | -.00590 | .00970 | 87.00000 | -5.09630 | .03500 | .01430 | -.01460 | .00270 |
| .902 | 6.976 | .02870 | .02460 | -.00590 | .00000 | 87.00000 | -5.11880 | .03500 | .01430 | -.01460 | .00270 |
| .900 | 7.972 | .02370 | .02460 | -.00590 | .00000 | 87.00000 | -5.11130 | .03500 | .01430 | -.01460 | .00270 |
| .901 | 9.977 | .02250 | .02460 | -.00590 | .00000 | 87.00000 | -5.10380 | .03500 | .01430 | -.01460 | .00270 |
| .902 | 11.928 | .02070 | .01960 | -.00600 | .00000 | 87.00000 | -5.11130 | .02490 | .01430 | -.01470 | .00270 |
| .901 | 14.820 | .02130 | .02210 | -.00340 | .00000 | 87.00000 | -5.12630 | .03000 | .01430 | -.00960 | .00270 |
| | GRADIENT | .00818 | .00000 | .00000 | .00199 | -.00000 | .00459 | .00000 | .00000 | .00000 | .00000 |

RUN NO. 476/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | ELV-OB | AIL-1B | AIL-OB |
|------|----------|---------|--------|---------|--------|----------|----------|--------|---------|---------|---------|
| .953 | -5.097 | -.03730 | .02250 | -.00800 | .00000 | 87.00000 | -5.08880 | .03500 | .01000 | -.01460 | .00150 |
| .952 | -.466 | -.00200 | .02250 | -.00800 | .00000 | 87.00000 | -5.11130 | .03500 | .01000 | -.01460 | .00150 |
| .953 | 2.284 | .00850 | .02250 | -.00800 | .00000 | 87.00000 | -5.10380 | .04000 | .00580 | -.00950 | .00580 |
| .951 | 4.929 | .03190 | .02290 | -.00760 | .00000 | 87.00000 | -5.10380 | .04000 | .01000 | -.00950 | .00150 |
| .950 | 7.054 | .02830 | .02500 | -.00550 | .01940 | 87.00000 | -5.11130 | .04000 | .01430 | -.00950 | .00270 |
| .952 | 8.061 | .02530 | .02710 | -.00340 | .01940 | 87.00000 | -5.11130 | .02990 | .01000 | -.01970 | .00150 |
| .952 | 10.143 | .02440 | .01990 | -.01060 | .01940 | 87.00000 | -5.11130 | .04000 | .01000 | -.00950 | .00150 |
| .952 | 12.048 | .03070 | .02500 | -.00550 | .01940 | 87.00000 | -5.11130 | .04000 | .01000 | -.00950 | .00150 |
| .951 | 15.034 | .02510 | .02250 | -.00800 | .00970 | 87.00000 | -5.11130 | .03500 | .01000 | -.01460 | .00150 |
| | GRADIENT | .00627 | .00007 | .00007 | .00000 | .00000 | .00138 | .00092 | -.00077 | .00094 | -.00079 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO

LREF = 474.8100 INCHES YMRP = .0000 IN. YO

BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO

SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000

AILRON = .000 BDFLAP = .000

SPDBRK = 87.200 RUDDER = -5.000

RN/L = 5.000

| RUN NO. 491/ 0 | | RN/L = 4.97 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|--------|---------------------------------|--------|
| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP |
| 1.200 | -5.196 | -.03640 | .01540 | -.00520 | .00970 |
| 1.200 | -1.168 | -.00050 | .01290 | -.00780 | .00000 |
| 1.200 | 2.410 | .00660 | .01290 | -.00780 | .00000 |
| 1.196 | 4.992 | .02720 | .01290 | -.00780 | .00000 |
| 1.198 | 7.057 | .02670 | .01290 | -.00780 | .00000 |
| 1.199 | 8.094 | .02410 | .01030 | -.01030 | .00000 |
| 1.202 | 10.129 | .02210 | .01290 | -.00780 | .00000 |
| 1.202 | 12.152 | .01980 | .01280 | -.01280 | .00000 |
| 1.199 | 15.184 | .02120 | .01280 | -.01280 | .00000 |
| | GRADIENT | .00537 | .00000 | .00000 | .00000 |
| RUN NO. 501/ 0 | | RN/L = 4.96 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP |
| 1.402 | -5.088 | -.03490 | .01720 | .00150 | .00000 |
| 1.401 | -1.032 | -.00540 | .01760 | .00190 | .01940 |
| 1.400 | 2.494 | .00640 | .01760 | .00190 | .00970 |
| 1.400 | 5.077 | .02870 | .01500 | -.00060 | .00000 |
| 1.403 | 7.183 | .02560 | .01040 | -.00530 | .00000 |
| 1.402 | 8.181 | .02150 | .01040 | -.00030 | .00000 |
| 1.400 | 10.236 | .02050 | .01040 | -.00060 | .00000 |
| 1.397 | 12.227 | .02580 | .01500 | -.00060 | .00000 |
| 1.394 | 15.280 | .02620 | .01500 | -.00060 | .00000 |
| | GRADIENT | .00467 | .00000 | .00000 | .00384 |
| RUN NO. 491/ 0 | | RN/L = 4.97 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP |
| 1.200 | -5.196 | -.03640 | .01540 | -.00520 | .00970 |
| 1.200 | -1.168 | -.00050 | .01290 | -.00780 | .00000 |
| 1.200 | 2.410 | .00660 | .01290 | -.00780 | .00000 |
| 1.196 | 4.992 | .02720 | .01290 | -.00780 | .00000 |
| 1.198 | 7.057 | .02670 | .01290 | -.00780 | .00000 |
| 1.199 | 8.094 | .02410 | .01030 | -.01030 | .00000 |
| 1.202 | 10.129 | .02210 | .01290 | -.00780 | .00000 |
| 1.202 | 12.152 | .01980 | .01280 | -.01280 | .00000 |
| 1.199 | 15.184 | .02120 | .01280 | -.01280 | .00000 |
| | GRADIENT | .00537 | .00000 | .00000 | .00000 |
| RUN NO. 501/ 0 | | RN/L = 4.96 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP |
| 1.402 | -5.088 | -.03490 | .01720 | .00150 | .00000 |
| 1.401 | -1.032 | -.00540 | .01760 | .00190 | .01940 |
| 1.400 | 2.494 | .00640 | .01760 | .00190 | .00970 |
| 1.400 | 5.077 | .02870 | .01500 | -.00060 | .00000 |
| 1.403 | 7.183 | .02560 | .01040 | -.00530 | .00000 |
| 1.402 | 8.181 | .02150 | .01040 | -.00030 | .00000 |
| 1.400 | 10.236 | .02050 | .01040 | -.00060 | .00000 |
| 1.397 | 12.227 | .02580 | .01500 | -.00060 | .00000 |
| 1.394 | 15.280 | .02620 | .01500 | -.00060 | .00000 |
| | GRADIENT | .00467 | .00000 | .00000 | .00384 |

| RUN NO. 491/ 0 | | RN/L = 4.97 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|--------|---------------------------------|--------|
| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP |
| 1.200 | -5.196 | -.03640 | .01540 | -.00520 | .00970 |
| 1.200 | -1.168 | -.00050 | .01290 | -.00780 | .00000 |
| 1.200 | 2.410 | .00660 | .01290 | -.00780 | .00000 |
| 1.196 | 4.992 | .02720 | .01290 | -.00780 | .00000 |
| 1.198 | 7.057 | .02670 | .01290 | -.00780 | .00000 |
| 1.199 | 8.094 | .02410 | .01030 | -.01030 | .00000 |
| 1.202 | 10.129 | .02210 | .01290 | -.00780 | .00000 |
| 1.202 | 12.152 | .01980 | .01280 | -.01280 | .00000 |
| 1.199 | 15.184 | .02120 | .01280 | -.01280 | .00000 |
| | GRADIENT | .00537 | .00000 | .00000 | .00000 |
| RUN NO. 501/ 0 | | RN/L = 4.96 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP |
| 1.402 | -5.088 | -.03490 | .01720 | .00150 | .00000 |
| 1.401 | -1.032 | -.00540 | .01760 | .00190 | .01940 |
| 1.400 | 2.494 | .00640 | .01760 | .00190 | .00970 |
| 1.400 | 5.077 | .02870 | .01500 | -.00060 | .00000 |
| 1.403 | 7.183 | .02560 | .01040 | -.00530 | .00000 |
| 1.402 | 8.181 | .02150 | .01040 | -.00030 | .00000 |
| 1.400 | 10.236 | .02050 | .01040 | -.00060 | .00000 |
| 1.397 | 12.227 | .02580 | .01500 | -.00060 | .00000 |
| 1.394 | 15.280 | .02620 | .01500 | -.00060 | .00000 |
| | GRADIENT | .00467 | .00000 | .00000 | .00384 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA
AMES 118-1-11 0A145A 01

PAGE 1200
(C2F0C6) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA =
AILRON =
SPDBRK =
RN/L =

5.000 ELEVON = .000
.000 BDFLAP = .000
87.200 RUDDER = -5.000
5.000

RUN NO. 448/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|--------|--------|--------|----------|----------|--------|--------|---------|---------|
| .598 | -6.016 | 5.17460 | .02350 | .00200 | .00970 | 87.00000 | -5.14870 | .00990 | .03700 | -.00990 | .01400 |
| .597 | -1.917 | 5.14700 | .02350 | .00200 | .00970 | 87.00000 | -5.16370 | .00990 | .03700 | -.00990 | .01400 |
| .597 | -.877 | 5.11190 | .02350 | .00200 | .00970 | 87.00000 | -5.16370 | .00990 | .03700 | -.00990 | .01400 |
| .597 | -.031 | 5.01910 | .02350 | .00200 | .00970 | 87.00000 | -5.16370 | .00990 | .03700 | -.00990 | .01400 |
| .597 | .510 | 5.14590 | .02590 | .00040 | .00970 | 87.00000 | -5.15620 | .01490 | .03700 | -.01490 | .01400 |
| .597 | 1.020 | 5.19840 | .02590 | .00040 | .00970 | 87.00000 | -5.16370 | .01490 | .03700 | -.01490 | .01400 |
| .597 | 2.085 | 5.20960 | .02350 | .00200 | .00970 | 87.00000 | -5.16370 | .00990 | .03700 | -.00990 | .01400 |
| .597 | 3.128 | 5.19650 | .02590 | .00040 | .00970 | 87.00000 | -5.15620 | .01490 | .03700 | -.01490 | .01400 |
| .597 | 4.161 | 5.19860 | .02560 | .00420 | .00970 | 87.00000 | -5.15620 | .00990 | .04130 | -.00990 | .01820 |
| .597 | 6.218 | 5.19140 | .01320 | .01320 | .00970 | 87.00000 | -5.14870 | .01490 | .01150 | -.01490 | -.01150 |
| .597 | GRADIENT | .01823 | .00036 | .00011 | .00000 | .00000 | .00123 | .00028 | .00047 | -.00028 | .00046 |

RUN NO. 465/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|---------|---------|---------|--------|----------|----------|---------|--------|---------|--------|
| .903 | -6.109 | 5.12340 | .02000 | .00560 | .00000 | 87.00000 | -5.11130 | .03000 | .01000 | -.00960 | .01500 |
| .902 | -1.952 | 5.10940 | .01790 | .00770 | .00000 | 87.00000 | -5.10380 | .03000 | .00580 | -.00960 | .00580 |
| .902 | -.904 | 5.03670 | .02250 | .00800 | .00000 | 87.00000 | -5.08880 | .03500 | .01000 | -.01460 | .00150 |
| .903 | .009 | 4.91870 | .01750 | .00810 | .00000 | 87.00000 | -5.11130 | .02490 | .01000 | -.01470 | .00150 |
| .901 | .663 | 4.99180 | .01990 | .01060 | .00000 | 87.00000 | -5.11130 | .02990 | .01000 | -.01970 | .00150 |
| .902 | 1.171 | 5.03750 | .01990 | .01060 | .00000 | 87.00000 | -5.11880 | .02990 | .01000 | -.01970 | .00150 |
| .902 | 2.216 | 5.00160 | .01990 | .01060 | .00000 | 87.00000 | -5.13380 | .02990 | .01000 | -.01970 | .00150 |
| 1.144 | 3.259 | 4.98590 | .01990 | .01060 | .00000 | 87.00000 | -5.14120 | .02990 | .01000 | -.01970 | .00150 |
| .904 | 4.304 | 4.97240 | .01740 | .01310 | .00000 | 87.00000 | -5.14870 | .02480 | .01000 | -.02480 | .00150 |
| .899 | 6.380 | 4.93290 | .01990 | .01060 | .00000 | 87.00000 | -5.17120 | .02990 | .01000 | -.01970 | .00150 |
| .899 | GRADIENT | -.01390 | -.00015 | -.00080 | .00000 | .00000 | -.00901 | -.00069 | .00041 | -.00203 | .00042 |

RUN NO. 477/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|---------|---------|--------|----------|----------|---------|--------|---------|--------|
| .953 | -6.085 | 5.02910 | .01750 | .00310 | .00000 | 87.00000 | -5.08880 | .02500 | .01000 | -.00470 | .01500 |
| .953 | -1.951 | 5.03270 | .01750 | .00310 | .00000 | 87.00000 | -5.12630 | .02500 | .01000 | -.00470 | .00150 |
| .950 | -.906 | 5.00550 | .01750 | .00310 | .00000 | 87.00000 | -5.12630 | .02500 | .01000 | -.00470 | .00150 |
| .950 | .151 | 4.97100 | .01500 | .00560 | .00000 | 87.00000 | -5.13380 | .02000 | .01000 | -.00980 | .00150 |
| .950 | .662 | 4.99150 | .01500 | .00560 | .00000 | 87.00000 | -5.13380 | .02000 | .01000 | -.00980 | .00150 |
| .952 | 1.179 | 5.03010 | .01710 | .00350 | .00000 | 87.00000 | -5.13380 | .02000 | .01430 | -.00980 | .00270 |
| .951 | 2.226 | 5.01340 | .01710 | .00350 | .00000 | 87.00000 | -5.14120 | .02000 | .01430 | -.00980 | .00270 |
| .951 | 3.264 | 4.99380 | .01710 | .00350 | .00000 | 87.00000 | -5.16370 | .02000 | .01430 | -.00980 | .00270 |
| .949 | 4.304 | 4.97490 | .01460 | .00610 | .00000 | 87.00000 | -5.16370 | .01490 | .01430 | -.01490 | .00270 |
| .950 | 6.372 | 4.93950 | .01460 | .00610 | .00000 | 87.00000 | -.82280 | .01490 | .01430 | -.01490 | .00270 |
| .950 | GRADIENT | -.00509 | -.00023 | -.00024 | .00000 | .00000 | -.00672 | -.00136 | .00091 | -.00138 | .00099 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1201

AMES 118-1-11 OAI45A 01

(C2F0C6) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 87.200 RUDDER = -5.000
 RN/L = 5.000

RUN NO. 492/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|---------|--------|---------|--------|----------|----------|--------|--------|---------|---------|
| 1.200 | -6.075 | 5.06940 | .01790 | -.00770 | .00970 | 87.00000 | -5.08130 | .03000 | .00580 | -.00960 | -.00580 |
| 1.199 | -1.943 | 5.04730 | .01530 | -.01020 | .00000 | 87.00000 | -5.12630 | .02490 | .00580 | -.01470 | -.00580 |
| 1.199 | -.902 | 5.03200 | .01530 | -.01020 | .00000 | 87.00000 | -5.14120 | .02490 | .00580 | -.01470 | -.00580 |
| 1.198 | .154 | 5.08510 | .01530 | -.01020 | .00000 | 87.00000 | -5.15620 | .02490 | .00580 | -.01470 | -.00580 |
| 1.198 | .631 | 5.01820 | .01530 | -.01020 | .00000 | 87.00000 | -5.15620 | .02490 | .00580 | -.01470 | -.00580 |
| 1.198 | 1.151 | 5.01520 | .01530 | -.01020 | .00000 | 87.00000 | -5.17120 | .02490 | .00580 | -.01470 | -.00580 |
| 1.198 | 2.198 | 5.02330 | .01530 | -.01020 | .00000 | 87.00000 | -5.17870 | .02490 | .01430 | -.01470 | -.00270 |
| 1.198 | 3.245 | 5.00650 | .01960 | -.00600 | .00000 | 87.00000 | -5.18620 | .02490 | .01430 | -.01470 | -.00270 |
| 1.200 | 4.283 | 4.99660 | .01960 | -.00600 | .00000 | 87.00000 | -5.24610 | .01980 | .00580 | -.01980 | -.00580 |
| 1.198 | 6.355 | 4.97360 | .01280 | -.01280 | .00000 | 87.00000 | -.00927 | .00000 | .00149 | -.00000 | -.00149 |
| 1.198 | GRADIENT | -.00884 | .00075 | .00074 | .00000 | .00000 | | | | | |

RUN NO. 502/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|---------|---------|---------|--------|----------|----------|---------|---------|---------|---------|
| 1.403 | -6.247 | 5.23510 | .01290 | -.00270 | .00000 | 87.00000 | -5.16370 | .02010 | .00580 | -.00030 | -.00580 |
| 1.405 | -2.086 | 5.22350 | .01250 | -.00320 | .00000 | 87.00000 | -5.23110 | .01500 | .01000 | -.00480 | -.00150 |
| 1.404 | -1.035 | 5.23320 | .01250 | -.00320 | .00000 | 87.00000 | -5.08880 | .01500 | .01000 | -.00480 | -.00150 |
| 1.403 | .016 | 4.37030 | .01040 | -.00530 | .00970 | 87.00000 | -5.19370 | .01500 | .00580 | -.00480 | -.00580 |
| 1.403 | .652 | 4.67610 | .01040 | -.00530 | .00970 | 87.00000 | -5.20120 | .01500 | .00580 | -.00480 | -.00580 |
| 1.403 | 1.215 | 5.12140 | .00540 | -.00540 | .00970 | 87.00000 | -5.20120 | .00500 | .00580 | -.00500 | -.00580 |
| 1.403 | 2.212 | 5.12160 | .00790 | -.00280 | .00970 | 87.00000 | -5.16370 | .01000 | .00580 | -.00010 | -.00580 |
| 1.403 | 3.275 | 5.10770 | .01040 | -.00030 | .00970 | 87.00000 | -5.15620 | .01510 | .00580 | .00520 | -.00580 |
| 1.401 | 4.322 | 5.09850 | .01040 | -.00030 | .00000 | 87.00000 | -5.17870 | .01510 | .00580 | .00520 | -.00580 |
| 1.401 | 6.409 | 5.07990 | .01040 | -.00030 | .00000 | 87.00000 | -5.21620 | .01510 | .00580 | .00520 | -.00580 |
| 1.401 | GRADIENT | .00977 | -.00045 | .00059 | .00060 | -.00000 | .00200 | -.00020 | -.00068 | .00185 | -.00070 |

AMES 118-1-11 0A145A 01

(C2F0C7) (08 JUL 77)

REFERENCE DATA

SCALE
BREF
LREF
SPREF

| | | | |
|---|-----------|-----|----|
| - | 1076.6800 | IN. | XO |
| - | .0000 | IN. | YO |
| - | 375.0000 | IN. | ZO |

ALPHA
AILRON
SPDBRK
RN/L

| | | | |
|--------|--------|---|---------|
| 5.000 | ELEVON | = | .000 |
| .000 | BDFLAP | = | .000 |
| 87.200 | RUDDER | = | -10.000 |
| 5.000 | | | |

PARAMETRIC DATA

| | | | | | |
|---------|--------|--------|------|---------------------|-------------|
| RUN NO. | 449/ 0 | RN/L = | 4.97 | GRADIENT INTERVAL = | -5.00/ 5.00 |
|---------|--------|--------|------|---------------------|-------------|

| | |
|------|----------|
| MACH | BETA |
| .597 | -6.017 |
| .597 | -1.911 |
| .597 | -.872 |
| .598 | .035 |
| .597 | .508 |
| .597 | 1.029 |
| .597 | 2.093 |
| .597 | 3.134 |
| .597 | 4.166 |
| .596 | 6.222 |
| | GRADIENT |

| ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-18 |
|--------|---------|--------|----------|-----------|--------|
| -.0130 | -.0130 | .00970 | 87.00000 | -10.05400 | .01490 |
| .00780 | -.00780 | .00970 | 87.00000 | -10.05400 | .00990 |
| .00780 | -.00780 | .00970 | 87.00000 | -10.06300 | .00990 |
| .01300 | -.01300 | .00000 | 87.00000 | -10.06300 | .01490 |
| .01320 | -.01320 | .00970 | 87.00000 | -10.06300 | .01490 |
| .01320 | -.01320 | .01940 | 87.00000 | -10.06300 | .01490 |
| .01320 | -.01320 | .01940 | 87.00000 | -10.07200 | .01490 |
| .01320 | -.01320 | .01940 | 87.00000 | -10.07200 | .01490 |
| .01320 | -.01320 | .00970 | 87.00000 | -10.08000 | .01490 |
| .01070 | -.01070 | .00970 | 87.00000 | -10.07200 | .00990 |
| .00100 | -.00100 | .00140 | .00000 | -10.0375 | .00083 |

| | | | |
|---------|--------|-------------|---------------------------------|
| RUN NO. | 467/ 0 | RN/L = 4.95 | GRADIENT INTERVAL = -5.00/ 5.00 |
|---------|--------|-------------|---------------------------------|

| | |
|------|----------|
| MACH | BETA |
| .905 | -6.104 |
| .902 | -1.945 |
| .902 | -.903 |
| .902 | .143 |
| .901 | .679 |
| .901 | 1.181 |
| .902 | 2.226 |
| .901 | 3.266 |
| .900 | 4.307 |
| .898 | 6.384 |
| | GRADIENT |

| ELEVON | AILERON | BOFLAP | SPOBRK | RUDDER | ELV-1B |
|--------|---------|--------|----------|-----------|---------|
| .02040 | -.01020 | .01940 | 87.00000 | -9.99980 | .03500 |
| .01780 | -.01270 | .00000 | 87.00000 | -10.05400 | .02990 |
| .01780 | -.01270 | .00000 | 87.00000 | -10.05400 | .02990 |
| .01780 | -.01270 | .00000 | 87.00000 | -10.05400 | .02990 |
| .02460 | -.00590 | .00000 | 87.00000 | -10.05400 | .03500 |
| .02210 | -.00850 | .00000 | 87.00000 | -10.06300 | .02990 |
| .02210 | -.00850 | .00000 | 87.00000 | -10.08900 | .02990 |
| .02210 | -.00850 | .00000 | 87.00000 | -10.04500 | .02990 |
| .02210 | -.00850 | .00000 | 87.00000 | -10.67200 | .02990 |
| .01950 | -.01100 | .00000 | 87.00000 | -10.06300 | .02480 |
| .00082 | .00079 | .00000 | .00000 | - .00253 | -.00007 |

| | | | | | | | |
|---------|--------|--------|------|----------|------------|--------|------|
| RUN NO. | 493/ 0 | RN/L = | 4.96 | GRADIENT | INTERVAL = | -5.00/ | 5.00 |
|---------|--------|--------|------|----------|------------|--------|------|

| MACH | BETA | GRADIENT |
|-------|--------|----------|
| 1.198 | -6.064 | |
| 1.199 | -1.936 | |
| 1.200 | -.895 | |
| 1.197 | .163 | |
| 1.201 | .638 | |
| 1.199 | 1.156 | |
| 1.200 | 2.206 | |
| 1.199 | 3.252 | |
| 1.200 | 4.288 | |
| 1.197 | 6.359 | |

| ELEVON | AILRON | BOFLAP | SPDRBK | RUDDER | ELV-1B |
|--------|---------|--------|----------|-----------|---------|
| .1790 | -.00770 | .00970 | 87.00000 | -10.05400 | .03000 |
| .1780 | -.01280 | - | 87.00000 | -10.10700 | .01980 |
| .1280 | -.00770 | .00000 | 87.00000 | -10.09800 | .03000 |
| .1790 | -.00770 | .00000 | 87.00000 | -10.09800 | .03000 |
| .1790 | -.00770 | .00000 | 87.00000 | -10.10700 | .03000 |
| .1790 | -.00770 | .00000 | 87.00000 | -10.11600 | .03000 |
| .1530 | -.01280 | .00000 | 87.00000 | -10.11600 | .02490 |
| .1280 | -.01070 | .00970 | 87.00000 | -10.12500 | .01980 |
| .1490 | -.01070 | .00970 | 87.00300 | -10.13400 | .01980 |
| .1530 | -.01020 | .00000 | 87.00000 | -10.14300 | .02490 |
| .0026 | -.00025 | .00271 | .00000 | -.00532 | -.00095 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1203

(C2F0C7) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPOBRK = 87.200 RUDDER = -10.000
 RN/L = 5.000

RUN NO. 503/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|----------|---------|---------|---------|---------|--------|----------|-----------|---------|--------|--------|---------|
| 1.402 | -6.127 | 5.08170 | .01500 | -.00060 | .00970 | 87.00000 | -10.15200 | .02010 | .01000 | .00030 | -.00150 |
| 1.404 | -1.969 | 5.06850 | .01290 | -.00270 | .00000 | 87.00000 | -10.19700 | .02010 | .00580 | .00030 | -.00580 |
| 1.404 | -.917 | 5.05730 | .01290 | -.00270 | .00000 | 87.00000 | -10.20600 | .02010 | .00580 | .00030 | -.00580 |
| 1.405 | .162 | 5.09370 | .01290 | -.00270 | .00000 | 87.00000 | -10.21500 | .02010 | .00580 | .00030 | -.00580 |
| 1.403 | .647 | 5.09660 | .01040 | -.00030 | .00000 | 87.00000 | -10.08900 | .01510 | .00580 | .00520 | -.00580 |
| 1.402 | 1.166 | 5.06320 | .01330 | -.00310 | .00000 | 87.00000 | -10.04500 | .01510 | .01150 | .00520 | -.01150 |
| 1.401 | 2.224 | 5.04240 | .00790 | -.00280 | .00000 | 87.00000 | -9.94610 | .01510 | .00070 | .00520 | -.01080 |
| 1.401 | 3.276 | 5.02550 | .01040 | -.00030 | .00970 | 87.00000 | -9.88330 | .01510 | .00580 | .00520 | -.00580 |
| 1.402 | 4.321 | 5.01380 | .01580 | -.00560 | .00970 | 87.00000 | -10.09800 | .02010 | .01150 | .00030 | -.01150 |
| 1.401 | 6.412 | 4.98610 | .01500 | -.00060 | .00000 | 87.00000 | -10.13400 | .02010 | .01000 | .00030 | -.00150 |
| GRADIENT | -.01008 | -.00002 | -.00017 | -.00017 | .00168 | .00000 | .04095 | -.00046 | .00042 | .00045 | -.00078 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(C2F0C8) (08 JUL 77)

AMES 118-1-11 OAI45A 01

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500
 ALPHA = 5.000 BETA = .000
 AILRON = .000 BDFLAP = -11.700
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 792/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ALPHA | BETA | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|--------|---------|-----------|----------|---------|----------|----------|---------|---------|
| .588 | -9.951 | 4.94270 | .02680 | -.00280 | -11.64200 | 25.00000 | -.10290 | -9.94880 | -9.95370 | -.00820 | .00250 |
| .598 | -7.948 | 4.98610 | .02540 | -.00550 | -11.64200 | 25.00000 | -.09620 | -7.94570 | -7.95050 | -.00510 | -.00600 |
| .599 | -5.953 | 5.02540 | .02490 | -.00540 | -11.64200 | 25.00000 | -.10230 | -5.94980 | -5.95530 | -.00380 | -.00700 |
| .598 | -3.940 | 5.06670 | .02470 | -.01020 | -11.64200 | 25.00000 | -.09620 | -3.93500 | -3.94570 | -.01470 | -.00570 |
| .598 | -2.937 | 5.08970 | .02460 | -.01390 | -11.64200 | 25.00000 | -.10290 | -2.93420 | -2.94010 | -.01580 | -.01190 |
| .598 | -1.950 | 5.11290 | .02450 | -.00340 | -11.64200 | 25.00000 | -.10230 | -1.94600 | -1.95470 | -.00520 | -.00170 |
| .598 | -.949 | 5.00750 | .02520 | -.00340 | -11.64200 | 25.00000 | -.09620 | -.94730 | -.95060 | -.00220 | -.00900 |
| .598 | .015 | 5.02810 | .02500 | -.00020 | -11.64200 | 25.00000 | -.10290 | .03010 | .00000 | .00040 | .00000 |
| .598 | 1.012 | 5.01760 | .02530 | -.00960 | -11.64200 | 25.00000 | -.10230 | 1.01490 | 1.00960 | -.00530 | -.01390 |
| .598 | 2.007 | 5.02550 | .02530 | -.00740 | -11.64200 | 25.00000 | -.10290 | 2.01680 | 1.99670 | -.01320 | -.00170 |
| .598 | 3.011 | 5.04490 | .02500 | -.00580 | -11.64200 | 25.00000 | -.09620 | 3.01230 | 3.00900 | -.01400 | -.00420 |
| .598 | 4.008 | 5.02690 | .02550 | -.00630 | -11.64200 | 25.00000 | -.09620 | 4.01010 | 4.00690 | -.00830 | -.00090 |
| .598 | 6.004 | 5.03300 | .02640 | -.01570 | -11.64200 | 25.00000 | -.09620 | 6.00010 | 6.00760 | -.03050 | -.00090 |
| .597 | 8.023 | 5.04160 | .02650 | -.01510 | -11.64200 | 25.00000 | -.09620 | 8.02090 | 8.02530 | -.02460 | -.00570 |
| .597 | 10.015 | 5.06910 | .02680 | -.01570 | -11.64200 | 25.00000 | -.09620 | 10.01500 | 10.01500 | -.02650 | -.00490 |
| | GRADIENT | -.00769 | .00010 | .00043 | -.00000 | .00000 | .00023 | .99988 | 1.00011 | .00095 | -.00009 |

RUN NO. 808/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ALPHA | BETA | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|---------|---------|-----------|----------|---------|----------|----------|---------|---------|
| .901 | -9.953 | 4.95660 | .03690 | .01030 | -11.64200 | 25.00000 | -.10960 | -9.94210 | -9.96330 | .01830 | .00230 |
| .900 | -7.946 | 4.99050 | .03680 | -.00390 | -11.64200 | 25.00000 | -.10960 | -7.95570 | -7.93660 | -.00530 | -.00260 |
| .900 | -5.942 | 4.97260 | .03540 | -.00630 | -11.64200 | 25.00000 | -.10290 | -5.94440 | -5.94040 | -.00920 | -.00340 |
| .899 | -3.939 | 5.00570 | .03530 | .00340 | -11.64200 | 25.00000 | -.10960 | -3.94170 | -3.93600 | .01280 | -.00600 |
| .901 | -2.943 | 5.02430 | .03500 | .00160 | -11.64200 | 25.00000 | -.10960 | -2.92980 | -2.95540 | -.00010 | .00340 |
| .899 | -1.940 | 4.99570 | .03440 | .00700 | -11.64200 | 25.00000 | -.10960 | -1.93550 | -1.94430 | .00520 | .00870 |
| .901 | -.946 | 5.01350 | .03440 | .00480 | -11.64200 | 25.00000 | -.10960 | -.94090 | -.95060 | .01870 | -.00900 |
| .901 | .019 | 5.02780 | .03450 | .00450 | -11.64200 | 25.00000 | -.10960 | .03010 | .00850 | .00040 | .00850 |
| .901 | 1.012 | 5.03260 | .03430 | -.00420 | -11.63100 | 25.00000 | -.10960 | 1.02000 | 1.00390 | -.00020 | -.00810 |
| .900 | 2.003 | 5.05450 | .03430 | -.00470 | -11.64200 | 25.00000 | -.11640 | 2.02180 | 1.99700 | -.01820 | .00870 |
| .900 | 3.023 | 5.03200 | .03360 | -.00790 | -11.64200 | 25.00000 | -.10960 | 3.02790 | 3.01900 | -.00210 | -.01370 |
| .900 | 4.018 | 5.06160 | .03340 | -.01080 | -11.64200 | 25.00000 | -.10960 | 4.01930 | 4.01690 | -.01750 | -.00410 |
| .899 | 6.018 | 5.12120 | .03290 | -.00650 | -11.64200 | 25.00000 | -.10960 | 6.02870 | 6.00760 | -.01210 | -.00090 |
| .897 | 7.971 | 5.17800 | .03290 | -.05160 | -11.64200 | 25.00000 | -.10960 | 8.01450 | 7.99390 | -.00920 | -.00930 |
| .899 | 10.005 | 5.23590 | .03330 | -.01240 | -11.64200 | 25.00000 | -.10960 | 10.01100 | 9.99940 | -.02190 | -.00280 |
| | GRADIENT | .00643 | -.00020 | -.00198 | .00018 | -.00000 | -.00023 | 1.00018 | .99984 | -.00323 | -.00072 |

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DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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(C2F0C9) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 AILRON = .000 BOFLAP = 19.300
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 795/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ALPHA | BETA | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|---------|---------|----------|----------|---------|----------|----------|---------|---------|
| .598 | -9.943 | 4.93970 | .03140 | .00990 | 16.30800 | 25.00000 | -1.0960 | -9.93770 | -9.94860 | .00290 | .01700 |
| .598 | -7.948 | 4.97790 | .03140 | -.00550 | 16.29800 | 25.00000 | -.11640 | -7.94570 | -7.95050 | -.00510 | -.00600 |
| .598 | -5.945 | 4.99290 | .03070 | -.00360 | 16.29800 | 25.00000 | -.10960 | -5.94980 | -5.94040 | -.00380 | -.00340 |
| .599 | -3.938 | 5.00560 | .03020 | -.01270 | 16.30800 | 25.00000 | -.11640 | -3.93500 | -3.94070 | -.01470 | -.01070 |
| .598 | -2.945 | 5.00220 | .03010 | -.00550 | 16.30800 | 25.00000 | -.11640 | -2.94050 | -2.95000 | .00050 | -.01160 |
| .598 | -1.953 | 5.00200 | .02980 | .00400 | 16.30800 | 25.00000 | -.10960 | -1.95090 | -1.95420 | -.00030 | -.00820 |
| .598 | -.944 | 5.00790 | .02960 | -.00310 | 16.29800 | 25.00000 | -.11640 | -.93650 | -.95060 | .00290 | -.00900 |
| .599 | .035 | 5.02800 | .02940 | -.00660 | 16.29800 | 25.00000 | -.11640 | .04510 | .02580 | -.00440 | -.00880 |
| .601 | 1.010 | 5.00340 | .02940 | -.00680 | 16.30800 | 25.00000 | -.10960 | 1.01500 | 1.00510 | .00490 | -.01840 |
| .599 | 2.012 | 5.00830 | .02950 | -.01250 | 16.30800 | 25.00000 | -.11640 | 2.01150 | 2.01210 | -.01850 | -.00640 |
| .598 | 3.016 | 5.01770 | .02950 | -.00580 | 16.30800 | 25.00000 | -.10960 | 3.01730 | 3.01420 | -.00270 | -.00890 |
| .598 | 4.013 | 5.02640 | .02970 | -.00600 | 16.30800 | 25.00000 | -.10960 | 4.01470 | 4.01200 | -.01290 | .00090 |
| .598 | 6.016 | 5.05520 | .02960 | -.00930 | 16.30800 | 25.00000 | -.11640 | 6.01380 | 6.01880 | -.00660 | -.01200 |
| .598 | 8.002 | 5.06900 | .02930 | -.01070 | 16.30800 | 25.00000 | -.10960 | 8.00560 | 7.99850 | -.01820 | -.00310 |
| .598 | 10.014 | 5.08040 | .03030 | -.00400 | 16.31800 | 25.00000 | -.09620 | 10.01900 | 10.00800 | -.02270 | .01480 |
| | GRADIENT | .00168 | -.00008 | -.00018 | .00017 | -.00800 | .00068 | .99963 | 1.00036 | -.00062 | .00027 |

RUN NO. 811/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ALPHA | BETA | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|--------|---------|----------|----------|---------|----------|----------|---------|---------|
| .902 | -8.949 | 3.82000 | .00070 | -.00050 | 16.31800 | 25.00000 | -.13210 | -9.94390 | -9.95350 | -.01320 | .01210 |
| .900 | -7.938 | 5.00640 | .04370 | .00370 | 16.30800 | 25.00000 | -.02870 | -7.94040 | -7.93660 | .01000 | -.00260 |
| .900 | -5.937 | 5.02510 | .04280 | -.00670 | 16.31800 | 25.00000 | -.06240 | -5.93950 | -5.93470 | -.00430 | -.00900 |
| .900 | -3.937 | 5.03180 | .04120 | -.00230 | 16.31800 | 25.00000 | -.10960 | -3.91940 | -3.95550 | .00090 | -.00550 |
| .899 | -2.943 | 5.01000 | .03870 | -.00340 | 16.30800 | 25.00000 | -.10960 | -2.93480 | -2.95030 | -.00510 | -.00170 |
| .901 | -1.937 | 5.02460 | .03920 | .00450 | 16.30500 | 25.00000 | -.10290 | -1.93060 | -1.94430 | .00030 | .00870 |
| .900 | -.936 | 5.03790 | .03950 | -.00050 | 16.30800 | 25.00000 | -.10290 | -.93150 | -.94050 | -.00220 | .00110 |
| .899 | .016 | 5.05550 | .04030 | .00150 | 16.30800 | 25.00000 | -.10960 | .02000 | .01280 | -.00980 | .01280 |
| .900 | 1.015 | 5.08280 | .04120 | -.00740 | 16.30800 | 25.00000 | -.10960 | 1.01500 | 1.01540 | .00490 | -.01960 |
| .900 | 2.023 | 5.11050 | .04180 | -.00170 | 16.30800 | 25.00000 | -.10960 | 2.03250 | 2.01240 | -.00750 | .00400 |
| .899 | 3.026 | 5.14020 | .04240 | -.00540 | 16.30800 | 25.00000 | -.10290 | 3.03290 | 3.01930 | -.00710 | -.00370 |
| .900 | 4.013 | 5.10060 | .03850 | .00120 | 16.30800 | 25.00000 | -.10290 | 4.01500 | 4.01200 | -.00340 | .00090 |
| .896 | 6.009 | 5.15130 | .03860 | -.01130 | 16.30800 | 25.00000 | -.10960 | 6.00440 | 6.01340 | -.01600 | -.00660 |
| .899 | 8.009 | 5.20400 | .03900 | -.00880 | 16.30800 | 25.00000 | -.10290 | 8.00740 | 8.01000 | -.01370 | -.00400 |
| .899 | 10.007 | 5.25650 | .04050 | -.00530 | 16.31800 | 25.00000 | -.10290 | 10.00200 | 10.01300 | -.02110 | .01040 |
| | GRADIENT | .01481 | .00012 | -.00035 | -.00057 | .00000 | .00045 | .99887 | 1.00113 | -.00053 | -.00017 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1205

AMES 118-1-11 OAI45A 01

(C2F000) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO.

793/ 0

RN/L =

4.99

GRADIENT INTERVAL =

-5.00/ 5.00

| MACH | ELEVON | ALPHA | BETA | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|---------|-----------|----------|---------|----------|---------|---------|
| .599 | -9.943 | -.09130 | -.00580 | .01010 | -11.64200 | 25.00000 | -.09620 | -9.94390 | .00780 | .01230 |
| .599 | -7.950 | -.05440 | -.00530 | -.00280 | -11.57700 | 25.00000 | -.10960 | -7.94950 | .00990 | -.01560 |
| .599 | -5.940 | -.08800 | -.00200 | -.00400 | -11.64200 | 25.00000 | -.09620 | -5.93570 | -.00920 | -.00130 |
| .599 | -3.931 | -.04700 | -.00030 | .00010 | -11.64200 | 25.00000 | -.09620 | -3.93120 | .00140 | -.00120 |
| .599 | -2.947 | -.04100 | -.00520 | -.01370 | -11.64200 | 25.00000 | -.10290 | -2.95510 | -.02080 | -.00650 |
| .599 | -1.943 | -.04820 | -.00510 | -.00070 | -11.64200 | 25.00000 | -.09620 | -1.94950 | -.00490 | -.00350 |
| .599 | -.938 | -.02810 | -.00450 | .00230 | -11.64200 | 25.00000 | -.09620 | -.94550 | .00860 | -.00390 |
| .599 | .017 | -.04530 | -.00450 | -.00270 | -11.64200 | 25.00000 | -.09620 | .00430 | -.00960 | .00430 |
| .599 | 1.009 | -.03950 | -.00420 | -.00730 | -11.64200 | 25.00000 | -.10960 | 1.01420 | -.00530 | -.00930 |
| .599 | 2.012 | -.04120 | -.00400 | -.00730 | -11.64200 | 25.00000 | -.10960 | 2.00710 | -.01320 | -.00140 |
| .598 | 3.021 | -.02100 | -.00400 | -.00580 | -11.64200 | 25.00000 | -.10960 | 3.01450 | -.01270 | -.00110 |
| .599 | 4.031 | -.02510 | -.00330 | -.00880 | -11.64200 | 25.00000 | -.10960 | 3.99680 | -.01330 | -.00440 |
| .599 | 6.039 | -.00900 | -.00280 | -.01620 | -11.64200 | 25.00000 | -.10960 | 6.01340 | -.02580 | -.00660 |
| .599 | 8.018 | -.02860 | -.00260 | -.01490 | -11.64200 | 25.00000 | -.10960 | 8.02040 | -.02910 | -.00080 |
| .599 | 10.015 | -.02380 | -.00150 | -.01160 | -11.64200 | 25.00000 | -.10960 | 10.01000 | -.02270 | -.00060 |
| | GRADIENT | .00253 | -.00009 | -.00058 | -.00000 | .00000 | -.00158 | 1.00009 | -.00109 | -.00009 |

RUN NO.

809/ 0

RN/L =

5.02

GRADIENT INTERVAL =

-5.00/ 5.00

| MACH | ELEVON | ALPHA | BETA | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|---------|-----------|----------|---------|----------|---------|---------|
| .902 | -9.941 | -.11410 | -.00500 | .00790 | -11.64200 | 25.00000 | -.17690 | -9.94880 | .00840 | .00740 |
| .902 | -7.951 | -.07740 | -.00450 | .00200 | -11.63100 | 25.00000 | -.11640 | -7.95050 | .00990 | -.00600 |
| .902 | -5.945 | -.03670 | -.00340 | -.00850 | -11.64200 | 25.00000 | -.08270 | -5.95070 | -.01460 | -.00240 |
| .901 | -3.935 | .00510 | -.00310 | -.00500 | -11.64200 | 25.00000 | -.08270 | -3.94570 | -.00430 | -.00570 |
| .901 | -2.940 | .02910 | -.00190 | -.00100 | -11.64200 | 25.00000 | -.08270 | -2.94550 | -.00510 | -.00310 |
| .901 | -1.948 | .05210 | -.00110 | .00420 | -11.64200 | 25.00000 | -.08270 | -1.94570 | .00490 | .00350 |
| .901 | -.938 | .07650 | -.00010 | .00220 | -11.64200 | 25.00000 | -.07590 | -.94020 | .01360 | -.00330 |
| .901 | .019 | .09580 | .00100 | .00910 | -11.64200 | 25.00000 | -.07590 | .01280 | .00540 | -.01280 |
| .901 | 1.014 | .11170 | .00150 | .00250 | -11.64200 | 25.00000 | -.08940 | 1.01870 | .00480 | -.00480 |
| .901 | 2.007 | -.02790 | -.00100 | -.00740 | -11.64200 | 25.00000 | -.10290 | 1.99670 | -.01320 | -.00170 |
| .901 | 3.016 | -.01870 | -.00130 | -.00070 | -11.64200 | 25.00000 | -.09620 | 3.00450 | -.00210 | -.00080 |
| .901 | 4.016 | -.00780 | -.00150 | .00150 | -11.64200 | 25.00000 | -.09620 | 4.01210 | -.00800 | .01090 |
| .900 | 6.004 | -.05170 | -.00150 | .00150 | -11.64200 | 25.00000 | -.09620 | 5.99780 | -.02110 | -.01070 |
| .901 | 8.016 | -.02550 | -.00110 | -.00730 | -11.64200 | 25.00000 | -.09620 | 8.02000 | -.01470 | -.00010 |
| .901 | 10.005 | -.01540 | .00040 | -.01220 | -11.64200 | 25.00000 | -.09620 | 10.00400 | -.01720 | -.00720 |
| | GRADIENT | -.00539 | .00017 | -.00002 | -.00000 | .00000 | -.00249 | .99996 | -.00093 | .00090 |

PARAMETRIC DATA

ALPHA =
 AILRON =
 SPDBRK =
 RN/L =

BETA =
 BDFLAP =
 RUDDER =

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(C2F001) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8100 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0500

RUN NO. 796/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ALPHA | BETA | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|---------|---------|----------|----------|---------|----------|----------|---------|---------|
| .599 | -9.949 | -.09840 | -.00200 | -.00010 | 16.30800 | 25.00000 | -.10960 | -9.94330 | -9.95370 | -.00270 | AIL-0B |
| .599 | -7.963 | -.09160 | -.00230 | -.00480 | 16.30800 | 25.00000 | -.11640 | -7.96070 | -7.96440 | -.00030 | -.00250 |
| .599 | -5.945 | -.07690 | -.00160 | -.00360 | 16.30800 | 25.00000 | -.11640 | -5.94980 | -5.94040 | -.00380 | -.00930 |
| .600 | -3.941 | -.05100 | -.00490 | -.00070 | 16.30800 | 25.00000 | -.11640 | -3.93600 | -3.94570 | -.00710 | -.00340 |
| .599 | -2.945 | -.04450 | -.00590 | -.00590 | 16.30800 | 25.00000 | -.11640 | -2.93980 | -2.95030 | -.01010 | -.00570 |
| .599 | -1.945 | -.03810 | -.00610 | -.00170 | 16.30800 | 25.00000 | -.10960 | -1.93060 | -1.95940 | -.00030 | -.00170 |
| .599 | -.949 | -.03710 | -.00570 | -.00350 | 16.30800 | 25.00000 | -.11640 | -.95230 | -.94520 | -.00730 | -.00300 |
| .598 | .014 | -.03670 | -.00530 | -.00060 | 16.30800 | 25.00000 | -.11640 | .02000 | .00850 | -.00980 | -.01430 |
| .598 | 1.009 | -.01980 | -.00490 | -.00660 | 16.30800 | 25.00000 | -.10960 | 1.01490 | 1.00270 | -.01540 | -.00850 |
| .598 | 2.012 | -.02040 | -.00510 | -.01250 | 16.30800 | 25.00000 | -.11640 | 2.01680 | 2.00680 | -.01320 | -.02220 |
| .598 | 3.013 | -.03090 | -.00410 | -.01380 | 16.30800 | 25.00000 | -.11640 | 3.01130 | 3.01420 | -.01870 | -.01180 |
| .598 | 4.009 | -.01510 | -.00340 | -.01110 | 16.30800 | 25.00000 | -.11640 | 4.00020 | 4.01690 | -.01820 | -.00890 |
| .599 | 6.016 | -.01720 | -.00290 | -.00380 | 16.30800 | 25.00000 | -.11640 | 6.01890 | 6.01250 | -.01170 | -.00410 |
| .598 | 8.013 | -.02070 | -.00260 | -.00930 | 16.30800 | 25.00000 | -.10960 | 8.01000 | 8.01640 | -.01370 | -.00480 |
| .598 | 10.013 | -.01380 | -.00110 | -.00430 | 16.30800 | 25.00000 | -.11640 | 10.00700 | 10.01900 | -.02570 | -.01710 |
| | GRADIENT | .00398 | .00024 | -.00172 | .00000 | .00000 | -.00011 | .99861 | 1.00137 | -.00296 | -.00048 |

PARAMETRIC DATA

ALPHA = .000 BETA = .000
 AILRON = .000 BDFLAP = 16.300
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 812/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ALPHA | BETA | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|---------|---------|----------|----------|---------|----------|----------|---------|---------|
| .896 | -9.953 | -.10040 | .02270 | .00510 | 16.31800 | 25.00000 | -.09620 | -9.94760 | -9.96820 | .01280 | AIL-0B |
| .902 | -7.953 | -.06200 | .02370 | -.00060 | 16.31800 | 25.00000 | -.10290 | -7.95560 | -7.95050 | .00480 | -.00260 |
| .902 | -5.937 | -.05690 | .02760 | -.00670 | 16.31800 | 25.00000 | -.09620 | -5.93950 | -5.93470 | -.00430 | -.00600 |
| .901 | -3.935 | -.06140 | .02740 | -.00470 | 16.30800 | 25.00000 | -.10290 | -3.93030 | -3.94070 | .00140 | -.00900 |
| .900 | -2.930 | -.04860 | .02680 | -.01150 | 16.31800 | 25.00000 | -.09620 | -2.92920 | -2.93020 | -.01080 | -.01070 |
| .901 | -1.943 | -.02680 | .02730 | -.00070 | 16.31800 | 25.00000 | -.08940 | -1.93590 | -1.94950 | -.00490 | -.00350 |
| .901 | -.935 | -.04420 | .02470 | .00500 | 16.31800 | 25.00000 | -.08940 | -.92580 | -.94580 | .00350 | -.00650 |
| .900 | .017 | -.02560 | .02590 | .00190 | 16.31800 | 25.00000 | -.08940 | .02500 | .00850 | -.00470 | -.00850 |
| .900 | 1.009 | -.00410 | .02610 | -.00640 | 16.31800 | 25.00000 | -.08940 | 1.02000 | .99810 | -.01030 | -.00240 |
| .899 | 2.017 | .01500 | .02660 | -.00190 | 16.30800 | 25.00000 | -.08940 | 2.02180 | 2.01270 | -.01820 | -.01440 |
| .900 | 3.018 | .03110 | .02690 | -.00810 | 16.30800 | 25.00000 | -.08940 | 3.02790 | 3.00900 | -.00210 | -.01400 |
| .900 | 4.009 | .04590 | .02720 | -.00380 | 16.31800 | 25.00000 | -.08270 | 4.01010 | 4.00720 | -.00830 | -.01590 |
| .899 | 6.014 | .08030 | .02790 | -.01650 | 16.31800 | 25.00000 | -.08940 | 6.00350 | 6.01880 | -.02110 | -.01200 |
| .899 | 8.013 | -.00850 | .02720 | -.00010 | 16.31800 | 25.00000 | -.08940 | 8.01450 | 8.01060 | -.00920 | -.00900 |
| .900 | 10.023 | .02510 | .02990 | -.01280 | 16.31800 | 25.00000 | -.08940 | 10.02400 | 10.02100 | -.02740 | -.00170 |
| | GRADIENT | .01332 | -.00001 | .00051 | -.00017 | .00000 | .00170 | 1.00014 | .99987 | -.00089 | .00191 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1208

AMES 118-1-11 0A145A 01

(C2F0D2) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8100 INCHES YMRP = .0000 IN. Y0
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000 BETA = .000
AILRON = .000 BOFLAP = -11.700
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.00

RUN NO. 794/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH
.598
.598
.598
.598
.598
.598
.598
.598
.598
.598
GRADIENT

ELEVON
-9.948
-7.956
-5.940
-3.936
-2.910
-1.942
-.936
-.018
1.014
2.015
3.006
4.011
5.011
6.011
8.014
10.013
GRADIENT

ALPHA
10.04100
10.04500
10.06800
10.10100
10.10800
10.10300
10.13100
10.12100
10.04700
10.04600
10.06500
10.08100
10.06600
10.06000
10.07300
10.07300
GRADIENT

BETA
.03070
.02830
.02810
.02640
.02500
.02480
.02270
.02020
.01860
.01800
.01720
.01690
.01580
.01470
.01670
-.00133
GRADIENT

AILRON
.00550
.00260
.00120
-.00490
-.04150
-.00440
-.00570
-.00310
-.00350
-.00460
-.00100
-.00130
-.00870
-.01429
-.02170
-.00230
GRADIENT

BOFLAP
-11.64200
-11.64200
-11.64200
-11.64200
-11.64200
-11.64200
-11.64200
-11.64200
-11.56600
-11.64200
-11.64200
-11.56600
-11.64200
-11.64200
-11.64200
-.00640
GRADIENT

SPOBRK
25.00000
25.00000
25.00000
25.00000
25.00000
25.00000
25.00000
25.00000
25.00000
25.00000
25.00000
25.00000
25.00000
25.00000
25.00000
25.00000
GRADIENT

RUDDER
-.10960
-.10960
-.10960
-.11640
-.11640
-.11640
-.10960
-.10960
-.12310
-.10960
-.10960
-.12310
-.10960
-.10960
-.10960
-.10960
-.00011
GRADIENT

ELV-1B
-9.93710
-7.94550
-5.94490
-3.93550
-2.87390
-1.94080
-.93150
-.02500
1.02510
2.02750
3.01230
4.01010
5.00980
6.01190
8.01100
10.00800
GRADIENT

ELV-OB
-9.95860
-7.95540
-5.93570
-3.93600
-2.91520
-1.94430
-.94020
-.01000
1.00270
2.00170
2.99330
4.01210
5.00270
6.00240
8.01640
10.01900
GRADIENT

AIL-1B
.01340
.00490
.00110
-.00380
-.07610
-.00000
-.03220
-.00470
-.00490
-.00250
-.00230
-.00830
-.01170
-.02370
-.03420
-.00366
GRADIENT

AIL-OB
-.00240
-.00030
-.00130
-.00600
-.00680
-.00870
-.00930
-.00150
-.00220
-.00170
-.00430
-.00330
-.01090
-.00480
-.00930
-.00094
GRADIENT

RUN NO. 810/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH

.902
.899
.900
.900
.899
.900
.900
.899
.900
.900
GRADIENT

ELEVON
-9.941
-7.952
-5.932
-3.937
-2.945
-1.940
-.939
-.012
1.007
2.015
3.016
4.006
6.012
8.023
10.014
GRADIENT

ALPHA
10.12900
10.14000
10.15600
10.18300
10.19100
10.16700
10.18000
10.19100
10.21800
10.23200
10.25000
10.26700
10.20300
10.25400
10.19800
10.1144
GRADIENT

BETA
.01910
.01910
.01880
.01770
.01740
.01900
.01850
.01860
.01770
.01780
.01710
.01720
.01880
.01800
.01860
-.00010
GRADIENT

AILRON
-.00210
-.00660
-.01220
-.00740
-.00590
-.01200
-.00340
-.00280
-.00420
-.00580
-.00070
-.00120
-.01360
-.00620
-.00790
-.00062
GRADIENT

BOFLAP
-11.63100
-11.64200
-11.64200
-11.64200
-11.64200
-11.64200
-11.64200
-11.64200
-11.64200
-11.64200
-11.63100
-11.63100
-11.63100
-11.63100
-11.63100
-.00130
GRADIENT

SPOBRK
25.00000
25.00000
25.00000
25.00000
25.00000
25.00000
25.00000
25.00000
25.00000
25.00000
25.00000
25.00000
25.00000
25.00000
25.00000
25.00000
GRADIENT

RUDDER
-.06240
-.06240
-.07590
-.07590
-.06240
-.04220
-.08270
-.08270
-.08940
-.09620
-.08940
-.10290
-.08940
-.08940
-.09620
-.00510
GRADIENT

ELV-1B
-9.93280
-7.95060
-5.93410
-3.92460
-2.93980
-1.94040
-.93720
-.02000
1.00990
2.03290
3.02790
4.01500
6.00950
8.03090
10.01100
1.00071
GRADIENT

ELV-OB
-9.94910
-7.95250
-5.92910
-3.95050
-2.95030
-1.93510
-.94050
-.00430
1.00390
1.99700
3.00450
3.99700
6.01340
8.01470
10.01700
GRADIENT

AIL-1B
-.00210
-.00020
-.00970
-.00430
-.01010
-.01010
-.00790
-.00980
-.00020
-.00290
-.00210
-.00340
-.02110
-.02560
-.02190
-.00035
GRADIENT

AIL-OB
-.00210
-.01330
-.01470
-.01050
-.00170
-.01390
-.00110
-.00430
-.00810
-.00870
-.00060
-.00570
-.00660
-.00610
-.00610
-.00069
GRADIENT

DATE 10 MAR 80

OAIWS TABULATED FORCE DATA
AMES 11B-1-11 OAI45A 01

PAGE 1209
(C2F003) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000 BETA = .000
AILRON = .000 BDFLAP = 16.300
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 797/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ALPHA | BETA | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|----------|--------|----------|--------|---------|----------|----------|---------|----------|----------|---------|---------|
| .600 | -9.951 | 10.06800 | .02580 | .00750 | 16.30800 | 25.00000 | -.10290 | -9.94270 | -9.95840 | .00780 | .00720 |
| .600 | -7.943 | 10.11700 | .02240 | -.00600 | 16.30800 | 25.00000 | -.10960 | -7.95050 | -7.93460 | .00990 | -.02180 |
| .599 | -5.940 | 10.10600 | .02030 | -.00380 | 16.30800 | 25.00000 | -.10960 | -5.93950 | -5.94040 | -.00430 | -.00340 |
| .599 | -3.946 | 10.13200 | .01850 | .00020 | 16.30800 | 25.00000 | -.11640 | -3.93550 | -3.95570 | -.00380 | .00430 |
| .599 | -2.943 | 10.13700 | .02130 | -.00350 | 16.30800 | 25.00000 | -.10960 | -2.93980 | -2.94550 | -.01010 | .00310 |
| .599 | -1.940 | 10.13700 | .01700 | -.00190 | 16.31800 | 25.00000 | -.08940 | -1.93590 | -1.94430 | -.00490 | .00870 |
| .599 | -.944 | 10.05500 | .01690 | -.00340 | 16.30800 | 25.00000 | -.10960 | -.94220 | -.94550 | -.00280 | -.00390 |
| .599 | .026 | 10.04300 | .01630 | -.00590 | 16.30800 | 25.00000 | -.10960 | .03520 | .01730 | .00550 | -.01730 |
| .600 | 1.015 | 10.06300 | .02330 | -.00710 | 16.30800 | 25.00000 | -.10290 | 1.02010 | 1.01080 | .00990 | -.02420 |
| .600 | 2.020 | 10.04700 | .02300 | -.00440 | 16.30800 | 25.00000 | -.10960 | 2.02220 | 2.01750 | -.00780 | -.00100 |
| .599 | 3.016 | 10.06700 | .02240 | -.00600 | 16.30800 | 25.00000 | -.10960 | 3.01680 | 3.01450 | -.01320 | .00110 |
| .600 | 4.011 | 10.02500 | .02220 | -.00360 | 16.31800 | 25.00000 | -.08270 | 4.01470 | 4.00700 | -.01290 | .00580 |
| .600 | 6.014 | 10.03100 | .02170 | -.01150 | 16.30800 | 25.00000 | -.10960 | 6.01420 | 6.01340 | -.01640 | -.00660 |
| .599 | 8.009 | 10.03600 | .02130 | -.00880 | 16.30800 | 25.00000 | -.10290 | 8.01000 | 8.00740 | -.01370 | -.00400 |
| .599 | 10.012 | 10.02200 | .02000 | -.00930 | 16.30800 | 25.00000 | -.10960 | 10.01500 | 10.01000 | -.01810 | -.00060 |
| GRADIENT | | -.01119 | .00061 | -.00065 | .00034 | .00000 | .00170 | .99947 | 1.00051 | -.00066 | -.00066 |

RUN NO. 813/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ALPHA | BETA | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|----------|--------|----------|--------|---------|----------|----------|---------|----------|----------|---------|---------|
| .899 | -9.941 | 10.11700 | .04280 | .00320 | 16.30800 | 25.00000 | -.10960 | -9.93220 | -9.94910 | .00840 | -.00210 |
| .899 | -7.953 | 10.13500 | .04170 | .00000 | 16.30800 | 25.00000 | -.12310 | -7.94550 | -7.96010 | .00490 | -.00500 |
| .900 | -5.933 | 10.15500 | .04210 | .00340 | 16.31800 | 25.00000 | -.11640 | -5.92960 | -5.93570 | .00560 | .00130 |
| .898 | -3.943 | 10.17300 | .04120 | -.00740 | 16.30800 | 25.00000 | -.12310 | -3.94070 | -3.94570 | -.00900 | -.00570 |
| .898 | -2.940 | 10.14500 | .03870 | -.00070 | 16.31800 | 25.00000 | -.12310 | -2.94050 | -2.94040 | .00050 | -.00200 |
| .900 | -1.942 | 10.15900 | .03840 | .00920 | 16.30800 | 25.00000 | -.11640 | -1.92540 | -1.95890 | .00560 | .01290 |
| .900 | -.938 | 10.17200 | .03820 | .00250 | 16.31800 | 25.00000 | -.09620 | -.92580 | -.95090 | .00350 | .00140 |
| .900 | .019 | 10.18500 | .03740 | .00450 | 16.30800 | 25.00000 | -.08940 | .03010 | .00850 | .00040 | .00850 |
| .901 | 1.014 | 10.16400 | .04110 | -.00190 | 16.31800 | 25.00000 | -.05620 | 1.02000 | 1.00840 | -.00320 | -.00360 |
| .899 | 2.017 | 10.18500 | .04010 | -.00190 | 16.31800 | 25.00000 | -.10290 | 2.00200 | 2.00200 | -.00750 | .00370 |
| .900 | 3.013 | 10.17900 | .04140 | -.00870 | 16.30800 | 25.00000 | -.10290 | 3.02180 | 3.00450 | -.01820 | .00080 |
| .900 | 4.011 | 10.18000 | .04110 | -.00360 | 16.31800 | 25.00000 | -.09620 | 4.01470 | 4.00700 | -.01290 | .00580 |
| .899 | 6.012 | 10.23100 | .04040 | -.01400 | 16.31800 | 25.00000 | -.12310 | 6.00440 | 6.01980 | -.01600 | -.01200 |
| .900 | 8.020 | 10.20100 | .03870 | -.00740 | 16.31800 | 25.00000 | -.11640 | 8.01450 | 8.02530 | -.00920 | -.00570 |
| .899 | 10.020 | 10.24500 | .03900 | -.01060 | 16.31800 | 25.00000 | -.12310 | 10.02400 | 10.01700 | -.02740 | .00610 |
| GRADIENT | | .00287 | .00023 | -.00059 | .00051 | -.00000 | .00328 | 1.00036 | .99962 | -.00170 | .00052 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1210

ANES 118-1-11 0A145A 01

(C2F0D4) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETA = .000
 AILRON = .000
 SPDBRK = 25.000
 RUDDER = 5.000
 ELEVON = 5.000
 BDFLAP = -11.700
 RUDDER = .000

RUN NO. 786/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | ELV-IB | AIL-OB | AIL-IB |
|------|----------|---------|----------|---------|-----------|----------|---------|---------|---------|---------|---------|
| .596 | -5.027 | -0.1090 | 5.00500 | -0.0640 | -11.65300 | 25.00000 | -1.1640 | 5.00610 | 5.00390 | -0.0240 | -0.0240 |
| .597 | -0.057 | -0.1610 | 5.00500 | -0.0640 | -11.65300 | 25.00000 | -1.1640 | 5.00610 | 5.00390 | -0.0240 | -0.0240 |
| .596 | 2.482 | 0.1850 | 5.00230 | -0.0370 | -11.65300 | 25.00000 | -1.1640 | 5.00610 | 5.00390 | -0.0240 | -0.0240 |
| .597 | 5.001 | 0.4080 | 5.00230 | -0.0370 | -11.65300 | 25.00000 | -1.1640 | 5.00610 | 5.00390 | -0.0240 | -0.0240 |
| .597 | 6.048 | 0.4290 | 4.99990 | -0.0610 | -11.65300 | 25.00000 | -1.1640 | 5.00130 | 5.00130 | -0.0290 | -0.0290 |
| .597 | 7.097 | 0.4190 | 4.99990 | -0.0610 | -11.65300 | 25.00000 | -1.1640 | 5.00130 | 5.00130 | -0.0290 | -0.0290 |
| .597 | 8.151 | 0.4080 | 4.99990 | -0.0610 | -11.65300 | 25.00000 | -1.1640 | 5.00130 | 5.00130 | -0.0290 | -0.0290 |
| .597 | 9.122 | 0.3530 | 4.99700 | -0.0900 | -11.65300 | 25.00000 | -1.1640 | 5.00130 | 5.00130 | -0.0290 | -0.0290 |
| .597 | 10.125 | 0.4330 | 4.99990 | -0.0610 | -11.65300 | 25.00000 | -1.1640 | 5.00130 | 5.00130 | -0.0290 | -0.0290 |
| .596 | 11.157 | 0.4530 | 5.00230 | -0.0370 | -11.65300 | 25.00000 | -1.1640 | 5.00130 | 5.00130 | -0.0290 | -0.0290 |
| .597 | 12.149 | 0.4730 | 4.99700 | -0.0900 | -11.65300 | 25.00000 | -1.1640 | 5.00130 | 5.00130 | -0.0290 | -0.0290 |
| .597 | 13.156 | 0.4780 | 4.99990 | -0.0610 | -11.65300 | 25.00000 | -1.1640 | 5.00130 | 5.00130 | -0.0290 | -0.0290 |
| .597 | 15.186 | 0.6080 | 4.99700 | -0.0900 | -11.65300 | 25.00000 | -1.1640 | 5.00130 | 5.00130 | -0.0290 | -0.0290 |
| .595 | GRADIENT | .00095 | -0.00106 | .00106 | .00000 | .00000 | .00000 | .00000 | .00209 | .00213 | .00000 |

RUN NO. 807/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | ELV-IB | AIL-OB | AIL-IB |
|------|----------|----------|---------|---------|-----------|----------|---------|---------|---------|----------|----------|
| .902 | -5.053 | -0.03940 | 5.00810 | -0.0940 | -11.64200 | 25.00000 | -1.2310 | 5.01760 | 4.99860 | -0.01700 | -0.01700 |
| .902 | -0.034 | -0.0680 | 5.00810 | -0.0940 | -11.64200 | 25.00000 | -1.2310 | 5.01760 | 4.99860 | -0.01700 | -0.01700 |
| .904 | 2.486 | 0.0550 | 5.00810 | -0.0940 | -11.64200 | 25.00000 | -1.2310 | 5.01760 | 4.99860 | -0.01700 | -0.01700 |
| .902 | 5.054 | 0.3730 | 5.00810 | -0.0940 | -11.64200 | 25.00000 | -1.2310 | 5.01760 | 4.99860 | -0.01700 | -0.01700 |
| .900 | 6.087 | 0.2300 | 5.00570 | -0.1190 | -11.64200 | 25.00000 | -1.2310 | 5.01280 | 5.01280 | -0.0670 | -0.0670 |
| .902 | 7.092 | 0.1440 | 5.00570 | -0.1190 | -11.64200 | 25.00000 | -1.2310 | 5.01280 | 5.01280 | -0.0670 | -0.0670 |
| .900 | 8.129 | 0.1730 | 5.00570 | -0.1190 | -11.64200 | 25.00000 | -1.2310 | 5.01280 | 5.01280 | -0.0670 | -0.0670 |
| .900 | 9.149 | 0.1580 | 5.00570 | -0.1190 | -11.64200 | 25.00000 | -1.2310 | 5.01280 | 5.01280 | -0.0670 | -0.0670 |
| .899 | 10.167 | 0.1300 | 5.00300 | -0.0920 | -11.64200 | 25.00000 | -1.2310 | 5.01280 | 5.01280 | -0.0670 | -0.0670 |
| .901 | 11.186 | 0.1470 | 5.00300 | -0.0920 | -11.64200 | 25.00000 | -1.2310 | 5.01280 | 5.01280 | -0.0670 | -0.0670 |
| .902 | 12.197 | 0.1570 | 5.00010 | -0.0630 | -11.64200 | 25.00000 | -1.2310 | 5.01280 | 5.01280 | -0.0670 | -0.0670 |
| .900 | 13.205 | 0.1320 | 5.00570 | -0.1190 | -11.64200 | 25.00000 | -1.2310 | 5.01280 | 5.01280 | -0.0670 | -0.0670 |
| .900 | 15.221 | 0.2650 | 5.00040 | -0.1140 | -11.63100 | 25.00000 | -1.4110 | 5.01280 | 5.01280 | -0.0670 | -0.0670 |
| .903 | GRADIENT | .00488 | .00000 | .00000 | .00000 | .00000 | .03205 | .00000 | .00000 | .00000 | .00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1211

AMES 118-1-11 OAI45A 01

(C2F005) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = 5.000
 AILRON = .000 BDFLAP = 16.300
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 798/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|----------|--------|---------|---------|----------|----------|---------|---------|---------|---------|---------|
| .600 | -5.035 | .00680 | 5.01350 | -.00900 | 16.30800 | 25.00000 | -.10290 | 5.01510 | 5.01190 | -.02190 | .00390 |
| .600 | -.041 | .00270 | 5.01110 | -.01140 | 16.30800 | 25.00000 | -.10290 | 5.01510 | 5.00700 | -.02190 | -.00100 |
| .598 | 2.488 | .00630 | 5.00820 | -.01430 | 16.30800 | 25.00000 | -.10290 | 5.00930 | 5.00700 | -.02770 | -.00100 |
| .597 | 4.997 | .04400 | 5.00820 | -.01430 | 16.30800 | 25.00000 | -.09620 | 5.00930 | 5.00700 | -.02770 | -.00100 |
| .599 | 6.052 | .02570 | 5.01110 | -.01140 | 16.30800 | 25.00000 | -.10290 | 5.01510 | 5.00700 | -.02190 | -.00100 |
| .598 | 7.084 | .02270 | 5.00820 | -.01430 | 16.30800 | 25.00000 | -.10290 | 5.00930 | 5.00700 | -.02770 | -.00100 |
| .599 | 8.113 | .02020 | 5.01110 | -.01140 | 16.30800 | 25.00000 | -.10290 | 5.01510 | 5.00700 | -.02190 | -.00100 |
| .598 | 9.124 | .01990 | 5.00530 | -.00570 | 16.32800 | 25.00000 | -.06240 | 5.01510 | 5.00700 | -.02190 | -.00100 |
| .599 | 10.122 | .02040 | 5.01110 | -.01140 | 16.30800 | 25.00000 | -.10290 | 5.01510 | 5.00700 | -.02190 | -.00100 |
| .599 | 11.157 | .02120 | 5.01110 | -.01140 | 16.30800 | 25.00000 | -.10290 | 5.01510 | 5.00700 | -.02190 | -.00100 |
| .599 | 12.174 | .02130 | 5.01110 | -.01140 | 16.30800 | 25.00000 | -.10290 | 5.01510 | 5.00700 | -.02190 | -.00100 |
| .599 | 13.177 | .02090 | 5.01110 | -.01140 | 16.30800 | 25.00000 | -.10290 | 5.01510 | 5.00700 | -.02190 | -.00100 |
| .598 | 15.178 | .03340 | 5.01110 | -.01140 | 16.30800 | 25.00000 | -.10290 | 5.01510 | 5.00700 | -.02190 | -.00100 |
| .598 | GRADIENT | .00619 | -.00058 | -.00058 | .00000 | .00000 | .00133 | -.00115 | .00000 | -.00115 | .00000 |

RUN NO. 816/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|----------|--------|---------|---------|----------|----------|---------|---------|---------|---------|---------|
| .899 | -5.065 | .01050 | 5.01330 | -.01460 | 16.31800 | 25.00000 | -.13210 | 5.01460 | 5.01190 | -.03310 | .00390 |
| .899 | -.034 | .02260 | 5.01080 | -.01700 | 16.32800 | 25.00000 | -.05570 | 5.01460 | 5.00700 | -.03310 | -.00100 |
| .899 | 2.521 | .02600 | 5.00500 | -.02190 | 16.32800 | 25.00000 | -.04220 | 5.01460 | 4.99730 | -.03310 | -.01070 |
| .900 | 5.065 | .03430 | 5.00360 | -.02430 | 16.31800 | 25.00000 | -.10960 | 5.00930 | 4.99250 | -.03310 | -.01550 |
| .898 | 6.084 | .04500 | 5.00370 | -.02450 | 16.31800 | 25.00000 | -.05570 | 5.00930 | 4.99820 | -.02770 | -.02130 |
| .903 | 7.108 | .03720 | 5.00360 | -.02430 | 16.31800 | 25.00000 | .01170 | 5.01460 | 4.99250 | -.03310 | -.01550 |
| .898 | 8.141 | .03890 | 5.00360 | -.02430 | 16.31800 | 25.00000 | -.06240 | 5.01460 | 4.99250 | -.03310 | -.01550 |
| .901 | 9.165 | .03350 | 5.00330 | -.01920 | 16.31800 | 25.00000 | -.07590 | 5.00930 | 4.99730 | -.02770 | -.01070 |
| .898 | 10.163 | .03470 | 5.00090 | -.02160 | 16.31800 | 25.00000 | -.06240 | 5.00930 | 4.99250 | -.02770 | -.01550 |
| .896 | 11.187 | .03760 | 5.00090 | -.02160 | 16.30800 | 25.00000 | -.04220 | 5.00930 | 4.99250 | -.02770 | -.01550 |
| .895 | 12.199 | .04010 | 5.00060 | -.02720 | 16.30800 | 25.00000 | -.05570 | 5.00880 | 4.99250 | -.03890 | -.01550 |
| .900 | 13.208 | .03760 | 5.00060 | -.02720 | 16.30800 | 25.00000 | -.11640 | 5.00880 | 4.99250 | -.03890 | -.01550 |
| .899 | 15.224 | .05240 | 4.99820 | -.02960 | 16.30800 | 25.00000 | -.18590 | 5.00880 | 4.98760 | -.03890 | -.02040 |
| .899 | GRADIENT | .00133 | -.00188 | -.00192 | .00000 | -.00000 | .00528 | .00000 | -.00380 | .00000 | -.00380 |

OAI45 TABULATED FORCE DATA

AMES 118-1-11 OAI45A 01

DATE 10 MAR 80

(C2F0D6) (08 JUL 77)

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 471.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000
AILRON = .000
SPOBRK = 25.000
RUDDER = 5.000

ELEVON = -5.000
BDFLAP = -11.700
RUDDER = .000

RUN NO. 787/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-OB | AIL-1B | AIL-OB |
|------|----------|--------|----------|---------|-----------|----------|---------|----------|----------|---------|---------|
| .597 | -5.085 | .00190 | -4.93860 | -.00220 | -11.65300 | 25.00000 | -.12310 | -4.93040 | -4.94680 | .01110 | -.01550 |
| .598 | -.094 | .01670 | -4.94130 | .00050 | -11.65300 | 25.00000 | -.12310 | -4.93580 | -4.94680 | .01650 | -.01550 |
| .598 | 2.463 | .01990 | -4.94130 | .00050 | -11.65300 | 25.00000 | -.12310 | -4.93580 | -4.94680 | .01650 | -.01550 |
| .597 | 4.975 | .04450 | -4.94410 | -.00230 | -11.65300 | 25.00000 | -.14110 | -4.94140 | -4.94680 | .01100 | -.01550 |
| .597 | 6.010 | .04810 | -4.93860 | -.00780 | -11.57700 | 25.00000 | -.12310 | -4.93600 | -4.94120 | .00560 | -.02120 |
| .597 | 7.040 | .05030 | -4.94130 | .00050 | -11.65300 | 25.00000 | -.12310 | -4.93580 | -4.94680 | .01650 | -.01550 |
| .596 | 8.014 | .04760 | -4.94410 | -.00230 | -11.65300 | 25.00000 | -.12310 | -4.94140 | -4.94680 | .01100 | -.01550 |
| .596 | 9.038 | .05740 | -4.94370 | -.00190 | -11.65300 | 25.00000 | -.12310 | -4.93580 | -4.95160 | .01650 | -.02030 |
| .597 | 10.086 | .05960 | -4.94650 | -.00470 | -11.65300 | 25.00000 | -.12310 | -4.93580 | -4.95160 | .01650 | -.02030 |
| .598 | 11.092 | .05870 | -4.94370 | -.00190 | -11.65300 | 25.00000 | -.12310 | -4.94140 | -4.96210 | .01100 | -.01950 |
| .599 | 12.137 | .05680 | -4.95170 | -.00420 | -11.65300 | 25.00000 | -.12310 | -4.93580 | -4.95640 | .01650 | -.02510 |
| .598 | 13.130 | .05370 | -4.94610 | -.00430 | -11.65300 | 25.00000 | -.12310 | -4.93580 | -4.95160 | .01650 | -.02030 |
| .598 | 15.157 | .07340 | -4.94370 | -.00190 | -11.65300 | 25.00000 | -.12310 | -4.93580 | -4.95160 | .01650 | -.02030 |
| .598 | GRADIENT | .00147 | -.00055 | -.00055 | .00000 | -.00000 | .00000 | -.00110 | .00000 | -.00108 | .00000 |

RUN NO. 806/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-OB | AIL-1B | AIL-OB |
|------|----------|---------|----------|---------|-----------|----------|---------|----------|----------|---------|---------|
| .902 | -5.081 | -.04540 | -4.93930 | -.00230 | -11.64200 | 25.00000 | -.12310 | -4.92520 | -4.95330 | -.00520 | .00060 |
| .900 | -.087 | -.01220 | -4.94210 | .00050 | -11.64200 | 25.00000 | -.12310 | -4.92520 | -4.95900 | -.00520 | .00620 |
| .904 | 2.432 | .00300 | -4.93880 | -.00750 | -11.64200 | 25.00000 | -.11640 | -4.92520 | -4.95250 | -.00520 | -.00990 |
| .900 | 4.985 | .03330 | -4.93930 | -.00230 | -11.65300 | 25.00000 | -.10960 | -4.92520 | -4.95330 | -.00520 | .00060 |
| .901 | 6.021 | .02670 | -4.94170 | -.00470 | -11.64200 | 25.00000 | -.08940 | -4.92520 | -4.95810 | -.00520 | -.00420 |
| .901 | 7.042 | .01890 | -4.93880 | -.00750 | -11.64200 | 25.00000 | -.08270 | -4.92520 | -4.95250 | -.00520 | -.00990 |
| .899 | 8.089 | .01930 | -4.93930 | -.00230 | -11.64200 | 25.00000 | -.07590 | -4.92520 | -4.95330 | -.00520 | .00060 |
| .900 | 9.108 | .01370 | -4.93640 | -.00510 | -11.64200 | 25.00000 | -.08940 | -4.92520 | -4.94770 | -.00520 | .00060 |
| .900 | 10.131 | .01910 | -4.94410 | -.00710 | -11.64200 | 25.00000 | -.08940 | -4.92520 | -4.95330 | -.00520 | -.00510 |
| .901 | 11.149 | .01810 | -4.94170 | -.00470 | -11.64200 | 25.00000 | -.08940 | -4.92520 | -4.96290 | -.00520 | -.00900 |
| .899 | 12.185 | .02070 | -4.94170 | -.00470 | -11.64200 | 25.00000 | -.08940 | -4.92520 | -4.95810 | -.00520 | -.00420 |
| .900 | 13.178 | .02090 | -4.95000 | -.00200 | -11.64200 | 25.00000 | -.11640 | -4.93610 | -4.96380 | -.00540 | .00140 |
| .900 | 15.213 | .03330 | -4.94450 | -.00190 | -11.64200 | 25.00000 | -.10960 | -4.92520 | -4.96380 | -.00520 | .00140 |
| .903 | GRADIENT | .00898 | .00055 | -.00055 | -.00217 | -.00000 | .00266 | .00000 | .00112 | .00000 | -.00109 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(CF007) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

BETA =
 AILRON =
 SPDBRK =
 RN/L =

ELEVON =
 BDFLAP =
 RUDDER =

.000
 .000
 25.000
 5.000

-5.000
 16.300
 .000

PARAMETRIC DATA

RUN NO. 799/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|----------|---------|----------|----------|---------|----------|--------|---------|
| .500 | -5.058 | -.01470 | -4.92610 | -.00510 | 16.32800 | 25.00000 | -.06240 | -4.92710 | .00570 | -.01600 |
| .502 | -.056 | -.00220 | -4.92390 | -.00740 | 16.33900 | 25.00000 | -.06920 | -4.92270 | .00570 | -.02050 |
| .508 | 2.453 | .00470 | -4.92550 | -.00010 | 16.29800 | 25.00000 | -.10960 | -4.93160 | .01130 | -.01160 |
| .508 | 4.959 | .03880 | -4.92830 | -.00290 | 16.30800 | 25.00000 | -.10960 | -4.93160 | .00570 | -.01160 |
| .509 | 5.990 | .02890 | -4.93110 | -.00010 | 16.30800 | 25.00000 | -.10290 | -4.93720 | .00570 | -.00590 |
| .509 | 7.022 | .02830 | -4.93110 | -.00010 | 16.30800 | 25.00000 | -.10960 | -4.93720 | .00570 | -.00590 |
| .600 | 8.032 | .02340 | -4.93400 | -.00270 | 16.30800 | 25.00000 | -.10290 | -4.94290 | .00570 | -.00030 |
| .600 | 9.073 | .02830 | -4.93400 | -.00270 | 16.30800 | 25.00000 | -.10290 | -4.94290 | .00570 | -.00030 |
| .599 | 10.110 | .02880 | -4.92850 | -.00750 | 16.33900 | 25.00000 | -.06240 | -4.93190 | .00570 | -.02080 |
| .599 | 11.124 | .02610 | -4.93350 | -.00250 | 16.30800 | 25.00000 | -.10960 | -4.94200 | .00570 | -.01070 |
| .599 | 12.139 | .02980 | -4.93350 | -.00250 | 16.30800 | 25.00000 | -.10960 | -4.94200 | .00570 | -.01070 |
| .598 | 13.145 | .03030 | -4.93350 | -.00330 | 16.30800 | 25.00000 | -.10960 | -4.93640 | .00570 | -.01640 |
| .598 | 15.159 | .04170 | -4.93070 | -.00090 | 16.30800 | 25.00000 | -.00806 | -.00178 | .00000 | -.00178 |
| .598 | GRADIENT | .00817 | -.00088 | .00090 | -.00618 | .00000 | | | | |

RUN NO. 817/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|----------|---------|----------|----------|---------|----------|--------|---------|
| .899 | -5.110 | -.00430 | -4.93610 | -.00480 | 16.31800 | 25.00000 | -.09620 | -4.95250 | .00030 | -.00990 |
| .900 | -.086 | .02340 | -4.97660 | .03570 | 16.31800 | 25.00000 | -.06240 | -4.95250 | .08130 | -.00990 |
| .899 | 2.453 | .03450 | -4.97940 | .03860 | 16.31800 | 25.00000 | -.06920 | -4.95810 | .08130 | -.00420 |
| .897 | 5.014 | .04050 | -4.97900 | .03330 | 16.31800 | 25.00000 | -.04900 | -4.95730 | .08130 | -.01470 |
| .897 | 6.059 | .04690 | -4.97610 | .03050 | 16.31800 | 25.00000 | -.02870 | -4.95160 | .08130 | -.02030 |
| .898 | 7.086 | .03990 | -4.97370 | .03290 | 16.31800 | 25.00000 | -.13210 | -4.94680 | .08130 | -.01550 |
| .897 | 8.115 | .04190 | -4.97900 | .03330 | 16.31800 | 25.00000 | -.15900 | -4.95730 | .08130 | -.01470 |
| .898 | 9.134 | .04100 | -4.97370 | .03290 | 16.31800 | 25.00000 | -.13210 | -4.94680 | .08130 | -.01550 |
| .898 | 10.144 | .04200 | -4.97370 | .03290 | 16.31800 | 25.00000 | -.11640 | -4.94680 | .08130 | -.01550 |
| .901 | 11.178 | .04450 | -4.97370 | .03290 | 16.30800 | 25.00000 | -.15000 | -4.94680 | .08130 | -.01550 |
| .897 | 12.180 | .04530 | -4.97370 | .03290 | 16.30800 | 25.00000 | -.10290 | -4.94680 | .08130 | -.01550 |
| .896 | 13.188 | .04630 | -4.97370 | .03290 | 16.30800 | 25.00000 | -.09620 | -4.94680 | .08130 | -.01550 |
| .900 | 15.212 | .05730 | -4.97900 | .03330 | 16.30800 | 25.00000 | -.02200 | -4.95730 | .08130 | -.01470 |
| .900 | GRADIENT | .00437 | -.00110 | .00114 | .00000 | .00000 | -.00269 | -.00221 | .00000 | .00224 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1214

AMES 118-1-11 0A145A 01

(C2F008) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELEVON = 5.000 AILIRON = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

| RUN NO. | | 790/ 0 | RN/L = | 4.98 | GRADIENT INTERVAL = | | -5.00/ | 5.00 | | | |
|---------|----------|---------|--------|---------|---------------------|----------|---------|---------|---------|---------|---------|
| MACH | BDFLAP | ALPHA | BETA | ELEVON | AILRON | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
| .597 | -11.642 | 5.01250 | .02600 | 5.00260 | -.01460 | 25.00000 | -.09620 | 4.99810 | 5.00700 | -.02820 | -.00100 |
| .598 | -7.950 | 5.01740 | .02610 | 5.00260 | -.01460 | 25.00000 | -.09620 | 4.99810 | 5.00700 | -.02820 | -.00100 |
| .597 | -5.938 | 5.01940 | .02610 | 5.00260 | -.01460 | 25.00000 | -.10290 | 4.99810 | 5.00700 | -.02820 | -.00100 |
| .598 | -3.961 | 5.02280 | .02620 | 5.00260 | -.01460 | 25.00000 | -.10960 | 4.99810 | 5.00700 | -.02820 | -.00100 |
| .597 | -1.940 | 5.02450 | .02620 | 5.00260 | -.01460 | 25.00000 | -.10290 | 4.99810 | 5.00700 | -.02820 | -.00100 |
| .597 | .010 | 5.02790 | .02630 | 5.00260 | -.01460 | 25.00000 | -.10290 | 4.99810 | 5.00700 | -.02820 | -.00100 |
| .597 | 2.008 | 5.03130 | .02630 | 5.00010 | -.01700 | 25.00000 | -.09620 | 4.99810 | 5.00220 | -.02820 | -.00580 |
| .597 | 4.007 | 5.03650 | .02630 | 5.00010 | -.01700 | 25.00000 | -.09620 | 4.99810 | 5.00220 | -.02820 | -.00580 |
| .597 | 6.010 | 5.04200 | .02630 | 5.00260 | -.01460 | 25.00000 | -.10290 | 4.99810 | 5.00700 | -.02820 | -.00100 |
| .597 | 8.030 | 5.04760 | .02610 | 5.00260 | -.01700 | 25.00000 | -.10290 | 4.99810 | 5.00220 | -.02820 | -.00580 |
| .597 | 12.020 | 5.05970 | .02580 | 5.00010 | -.01700 | 25.00000 | -.10290 | 4.99810 | 5.00220 | -.02820 | -.00580 |
| .597 | 16.308 | 5.07310 | .02550 | 5.00010 | -.01700 | 25.00000 | -.10960 | 4.99810 | 5.00220 | -.02820 | -.00580 |
| .597 | 22.528 | 5.03560 | .02660 | 5.00010 | -.00024 | 25.00000 | -.00169 | 4.99810 | 5.00220 | -.00000 | -.00048 |
| | GRADIENT | .00172 | .00002 | -.00025 | -.00024 | -.00000 | .00169 | .00000 | -.00048 | | |

| MACH | BOFLAP | ALPHA | BETA | ELEVON | AILIRON | SPDBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|---------|---------|---------|----------|---------|---------|---------|---------|---------|
| .903 | -11.642 | 5.06610 | .03520 | 4.99800 | -.01380 | 25.00000 | -.09620 | 4.99860 | 4.99730 | -.01700 | -.01070 |
| .902 | -7.940 | 5.07200 | .03540 | 5.00040 | -.01140 | 25.00000 | -.09620 | 4.99860 | 5.00220 | -.01700 | -.00580 |
| .901 | -5.927 | 5.07640 | .03540 | 5.00040 | -.01140 | 25.00000 | -.10290 | 4.99860 | 5.00220 | -.01700 | -.00580 |
| .902 | -3.950 | 5.02640 | .03360 | 5.00040 | -.01140 | 25.00000 | -.10290 | 4.99860 | 5.00220 | -.01700 | -.00580 |
| .902 | -1.931 | 5.03160 | .03380 | 5.00330 | -.00850 | 25.00000 | -.10960 | 5.00440 | 5.00220 | -.01120 | -.00580 |
| .902 | .029 | 5.03850 | .03400 | 5.00040 | -.01140 | 25.00000 | -.11640 | 4.99860 | 5.00220 | -.01700 | -.00580 |
| .901 | 2.017 | 5.04280 | .03410 | 5.00040 | -.01140 | 25.00000 | -.12310 | 4.99860 | 5.00220 | -.01700 | -.00580 |
| .902 | 4.007 | 5.02000 | .03330 | 5.00040 | -.01140 | 25.00000 | -.12310 | 4.99860 | 5.00220 | -.01700 | -.00580 |
| .902 | 6.000 | 5.02660 | .03330 | 5.00040 | -.01140 | 25.00000 | -.12310 | 4.99860 | 5.00220 | -.01700 | -.00580 |
| .901 | 8.030 | 5.03360 | .03340 | 5.00040 | -.01380 | 25.00000 | -.12310 | 4.99860 | 4.99730 | -.01700 | -.01070 |
| .901 | 12.009 | 5.05190 | .03380 | 4.99800 | -.01380 | 25.00000 | -.12310 | 4.99860 | 4.99730 | -.01700 | -.01070 |
| .901 | 16.308 | 5.05500 | .03360 | 4.99800 | -.01380 | 25.00000 | -.12310 | 4.99860 | 4.99730 | -.01700 | -.00580 |
| .901 | 22.537 | 5.02930 | .03270 | 5.00040 | -.01140 | 25.00000 | -.12310 | 4.99860 | 5.00220 | -.01700 | -.00580 |
| .899 | GRADIENT | -.00008 | -.00002 | -.00014 | -.00014 | -.00000 | -.00204 | -.00029 | -.00000 | -.00029 | .00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1215

AMES 118-1-11 OAI45A 01

(C2F009) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = -5.000 AILRON = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

| MACH | BOFLAP | ALPHA | BETA | ELEVON | AILRON | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|----------|---------|----------|---------|----------|----------|---------|---------|
| .599 | -11.642 | 4.96670 | .02540 | -4.93870 | -.00770 | 25.00000 | -.09620 | -4.93060 | -4.94680 | .00020 | -.01550 |
| .598 | -7.940 | 4.97300 | .02540 | -4.93870 | -.00770 | 25.00000 | -.10290 | -4.93060 | -4.94680 | .00020 | -.01550 |
| .598 | -5.938 | 4.97600 | .02520 | -4.94150 | -.00480 | 25.00000 | -.10290 | -4.93060 | -4.95250 | .00020 | -.00990 |
| .598 | -3.903 | 4.97950 | .02520 | -4.93590 | -.01050 | 25.00000 | -.10290 | -4.93060 | -4.94120 | .00020 | -.02120 |
| .598 | -1.871 | 4.98390 | .02520 | -4.93370 | -.01270 | 25.00000 | -.10290 | -4.93060 | -4.93670 | .00020 | -.02560 |
| .598 | .029 | 4.98820 | .02520 | -4.93590 | -.01050 | 25.00000 | -.10290 | -4.93060 | -4.94120 | .00020 | -.02120 |
| .598 | 2.027 | 4.99260 | .02500 | -4.93590 | -.01050 | 25.00000 | -.10290 | -4.93060 | -4.94120 | .00020 | -.02120 |
| .598 | 3.996 | 4.99810 | .02470 | -4.94150 | -.00480 | 25.00000 | -.10290 | -4.93060 | -4.95250 | .00020 | -.00990 |
| .598 | 6.000 | 5.00370 | .02450 | -4.94150 | -.00480 | 25.00000 | -.10290 | -4.93060 | -4.95250 | .00020 | -.00990 |
| .598 | 8.020 | 5.00930 | .02460 | -4.93870 | -.00770 | 25.00000 | -.10290 | -4.93060 | -4.94680 | .00020 | -.01550 |
| .598 | 11.999 | 5.02070 | .02460 | -4.93870 | -.00770 | 25.00000 | -.10290 | -4.93060 | -4.94680 | .00020 | -.01550 |
| .598 | 16.547 | 5.03340 | .02490 | -4.94150 | -.00480 | 25.00000 | -.10290 | -4.93060 | -4.95250 | .00020 | -.00990 |
| .598 | 22.547 | 5.05310 | .02470 | -4.93870 | -.00770 | 25.00000 | -.10290 | -4.93060 | -4.94680 | .00020 | -.01550 |
| .598 | GRADIENT | .00233 | -.00006 | -.00068 | .00069 | -.00000 | -.00069 | -.00000 | -.00137 | -.00000 | -.00137 |

| MACH | BOFLAP | ALPHA | BETA | ELEVON | AILRON | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|--------|----------|---------|----------|---------|----------|----------|---------|---------|
| .902 | -11.631 | 4.90060 | .03520 | -4.93960 | .00280 | 25.00000 | -.11640 | -4.93060 | -4.94850 | .00020 | .00540 |
| .902 | -7.940 | 4.90720 | .03530 | -4.93960 | .00280 | 25.00000 | -.11640 | -4.93060 | -4.94850 | .00020 | .00540 |
| .902 | -5.948 | 4.91040 | .03540 | -4.93960 | .00280 | 25.00000 | -.11640 | -4.93060 | -4.94850 | .00020 | .00540 |
| .901 | -3.940 | 4.97190 | .03650 | -4.93960 | .00280 | 25.00000 | -.11640 | -4.93060 | -4.94850 | .00020 | .00540 |
| .902 | -1.940 | 4.97670 | .03650 | -4.93670 | .00000 | 25.00000 | -.12310 | -4.93060 | -4.94290 | .00020 | -.00030 |
| .902 | .010 | 4.97930 | .03630 | -4.93910 | -.00240 | 25.00000 | -.12310 | -4.93060 | -4.94770 | .00020 | -.00510 |
| .901 | 1.998 | 4.98430 | .03650 | -4.93910 | -.00240 | 25.00000 | -.12310 | -4.93060 | -4.94770 | .00020 | -.00510 |
| .902 | 3.996 | 4.99030 | .03670 | -4.93910 | -.00240 | 25.00000 | -.12310 | -4.93060 | -4.94770 | .00020 | -.00510 |
| .901 | 6.010 | 4.99540 | .03630 | -4.94200 | .00040 | 25.00000 | -.12310 | -4.93060 | -4.94330 | .00020 | .00060 |
| .901 | 8.000 | 4.99870 | .03640 | -4.94470 | .00040 | 25.00000 | -.12310 | -4.93060 | -4.94330 | .00020 | .00060 |
| .901 | 12.000 | 5.01170 | .03640 | -4.94100 | .00040 | 25.00000 | -.12310 | -4.93060 | -4.94330 | .00020 | .00060 |
| .900 | 16.308 | 5.02110 | .03640 | -4.94200 | .00040 | 25.00000 | -.11640 | -4.93060 | -4.95330 | .00020 | .00060 |
| .899 | 22.528 | 5.03380 | .03650 | -4.93920 | -.00790 | 25.00000 | -.12310 | -4.93070 | -4.94770 | -.01070 | -.00510 |
| .899 | GRADIENT | .00224 | .00002 | -.00007 | -.00065 | .00000 | -.00034 | -.00000 | -.00016 | -.00000 | -.00130 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1216

AMES 118-1-11 OAI45A 01

(CEFOE0) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO.

788/ 0

RN/L =

4.98

GRADIENT INTERVAL =

-5.00/ 5.00

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = -11.700 SPD8RK = 25.000
 RN/L = 5.000

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPD8RK | ELV-IB | AIL-IB | AIL-OB |
|------|----------|---------|---------|--------|---------|-----------|----------|--------|---------|--------|
| .598 | -14.976 | 4.99640 | .04560 | .01960 | -.00520 | -11.64200 | 25.00000 | .03500 | -.01460 | .00430 |
| .597 | -10.736 | 4.99580 | .04190 | .01710 | -.00270 | -11.64200 | 25.00000 | .03000 | -.00960 | .00430 |
| .597 | -4.939 | 4.99550 | .03790 | .01960 | -.00520 | -11.65300 | 25.00000 | .03500 | -.01460 | .00430 |
| .597 | -2.442 | 4.99590 | .03570 | .01710 | -.00270 | -11.65300 | 25.00000 | .03000 | -.00960 | .00430 |
| .598 | -.089 | 4.99740 | .03340 | .01710 | -.00270 | -11.65300 | 25.00000 | .03000 | -.00960 | .00430 |
| .598 | 2.522 | 4.99800 | .02960 | .01960 | -.00520 | -11.65300 | 25.00000 | .03500 | -.01460 | .00430 |
| .598 | 5.005 | 4.99820 | .02670 | .01960 | -.00520 | -11.65300 | 25.00000 | .03500 | -.01460 | .00430 |
| .597 | 10.011 | 4.99800 | .02230 | .01960 | -.00520 | -11.65300 | 25.00000 | .03500 | -.01460 | .00430 |
| .598 | 15.031 | 4.99830 | .01790 | .01960 | -.00520 | -11.65300 | 25.00000 | .03500 | -.01460 | .00430 |
| .597 | 18.134 | 5.00060 | .01560 | .01960 | -.00520 | -11.64200 | 25.00000 | .03500 | -.01460 | .00430 |
| .597 | 22.649 | 5.00130 | .01250 | .01960 | -.00520 | -11.64200 | 25.00000 | .03500 | -.01460 | .00430 |
| | GRADIENT | .00036 | -.00110 | .00000 | -.00000 | -.00000 | .00000 | .00001 | -.00001 | .00000 |

RUN NO.

803/ 0

RN/L =

5.00

GRADIENT INTERVAL =

-5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPD8RK | ELV-IB | AIL-IB | AIL-OB |
|------|----------|---------|---------|--------|---------|-----------|----------|--------|---------|--------|
| .902 | -14.976 | 4.99750 | .05000 | .02070 | -.01140 | -11.63100 | 25.00000 | .02000 | -.00980 | .01300 |
| .902 | -10.745 | 4.99860 | .04670 | .01790 | -.00850 | -11.63100 | 25.00000 | .02000 | -.00980 | .00730 |
| .902 | -4.939 | 5.00860 | .04340 | .02070 | -.01140 | -11.64200 | 25.00000 | .02000 | -.00980 | .01300 |
| .902 | -2.442 | 5.01110 | .04070 | .02070 | -.01140 | -11.63100 | 25.00000 | .02000 | -.00980 | .01300 |
| .902 | -.096 | 5.01260 | .03770 | .02070 | -.01140 | -11.63100 | 25.00000 | .02000 | -.00980 | .01300 |
| .902 | 2.505 | 5.01000 | .03350 | .02330 | -.00880 | -11.63100 | 25.00000 | .02500 | -.00470 | .01300 |
| .902 | 5.014 | 5.00960 | .03050 | .02070 | -.01140 | -11.64200 | 25.00000 | .02000 | -.00980 | .00730 |
| .902 | 10.003 | 5.01320 | .02580 | .01790 | -.00850 | -11.64200 | 25.00000 | .02000 | -.00980 | .01300 |
| .902 | 15.005 | 5.01240 | .02240 | .02070 | -.01140 | -11.64200 | 25.00000 | .02000 | -.00980 | .01300 |
| .901 | 18.125 | 5.01270 | .02000 | .02070 | -.01140 | -11.63100 | 25.00000 | .02500 | -.00470 | .01300 |
| .902 | 22.602 | 5.01060 | .01700 | .02330 | -.00880 | -11.63100 | 25.00000 | .02500 | -.00470 | .01300 |
| | GRADIENT | .00022 | -.00133 | .00032 | .00032 | .00133 | .00000 | .00062 | .00063 | .00000 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELEVON = .000 AILRON = .000
BDFLAP = 16.300 SPDBRK = 25.000
RN/L = 5.000

RUN NO. 800/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|---------|--------|---------|----------|----------|---------|---------|---------|---------|
| .600 | -14.970 | 4.97430 | .03860 | .02470 | -.00170 | 16.29800 | 25.00000 | .02500 | .02430 | -.00470 | .00120 |
| .600 | -10.754 | 4.97440 | .03510 | .02470 | -.00170 | 16.29800 | 25.00000 | .02500 | .02430 | -.00470 | .00120 |
| .600 | -4.939 | 5.02170 | .03110 | .02470 | -.00170 | 16.30800 | 25.00000 | .02500 | .02430 | -.00470 | .00120 |
| .600 | -2.442 | 5.02360 | .02960 | .02470 | -.00170 | 16.30800 | 25.00000 | .02500 | .02430 | -.00470 | .00120 |
| .600 | -1.110 | 5.00140 | .02820 | .02470 | -.00170 | 16.30800 | 25.00000 | .02500 | .02430 | -.00470 | .00120 |
| .600 | 2.513 | 5.00100 | .02470 | .02470 | -.00170 | 16.30800 | 25.00000 | .02500 | .02430 | -.00470 | .00120 |
| .600 | 5.014 | 4.99970 | .02280 | .02470 | -.00170 | 16.30800 | 25.00000 | .02500 | .02430 | -.00470 | .00120 |
| .600 | 10.011 | 5.00110 | .01900 | .02470 | -.00170 | 16.30800 | 25.00000 | .02500 | .02430 | -.00470 | .00120 |
| .600 | 15.022 | 4.99140 | .01560 | .02470 | -.00170 | 16.30800 | 25.00000 | .02500 | .02430 | -.00470 | .00120 |
| .600 | 18.116 | 4.99100 | .01310 | .02470 | -.00170 | 16.30800 | 25.00000 | .02500 | .02430 | -.00470 | .00120 |
| .600 | 22.639 | 4.99200 | .01000 | .02470 | -.00170 | 16.31800 | 25.00000 | .02500 | .02430 | -.00470 | .00120 |
| .600 | GRADIENT | -.00338 | -.00084 | .00000 | .00000 | .00000 | .00000 | -.00000 | -.00000 | .00000 | -.00000 |

RUN NO. 814/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|---------|--------|---------|----------|----------|---------|--------|---------|---------|
| .900 | -14.960 | 5.07080 | .04690 | .03260 | -.00370 | 16.30800 | 25.00000 | .04510 | .02000 | -.00440 | -.00300 |
| .900 | -10.727 | 5.07010 | .04420 | .03260 | -.00370 | 16.31800 | 25.00000 | .04510 | .01580 | -.00440 | -.00300 |
| .900 | -4.961 | 5.07050 | .04120 | .03240 | -.00370 | 16.31800 | 25.00000 | .04510 | .02000 | -.00440 | -.00300 |
| .901 | -2.434 | 5.07030 | .03960 | .03260 | -.00370 | 16.31800 | 25.00000 | .04510 | .02000 | -.00440 | -.00300 |
| .900 | -1.116 | 5.06080 | .03630 | .03260 | -.00370 | 16.31800 | 25.00000 | .04510 | .02000 | -.00440 | -.00300 |
| .900 | 2.513 | 5.06010 | .03240 | .03040 | -.00370 | 16.31800 | 25.00000 | .04510 | .01580 | -.00440 | -.00300 |
| .900 | 5.005 | 5.06010 | .03040 | .03040 | -.00370 | 16.31800 | 25.00000 | .04510 | .01580 | -.00440 | -.00300 |
| .900 | 10.003 | 5.06220 | .02720 | .03260 | -.00370 | 16.31800 | 25.00000 | .04510 | .02000 | -.00440 | -.00300 |
| .900 | 15.005 | 5.06320 | .02370 | .03260 | -.00370 | 16.31800 | 25.00000 | .04510 | .02000 | -.00440 | -.00300 |
| .901 | 18.125 | 5.06440 | .02160 | .03260 | -.00370 | 16.32800 | 25.00000 | .04510 | .02000 | -.00440 | -.00300 |
| .901 | 22.654 | 5.06220 | .01890 | .03260 | -.00370 | 16.32800 | 25.00000 | .04510 | .02000 | -.00440 | -.00300 |
| .901 | GRADIENT | -.00154 | -.00120 | .00027 | .00025 | .00000 | .00000 | -.00000 | .00051 | .00000 | .00052 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA
AMES 11B-1-11 0A145A 01

PAGE 1218
(C2F0E2) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = -11.700
SPOBRK = 25.000 RUDDER = -5.000
RN/L = 5.000

RUN NO. 789/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | AIL-1B | ELV-OB | AIL-OB |
|------|----------|---------|--------|--------|-----------|----------|----------|--------|--------|--------|--------|
| .597 | -6.052 | 5.11220 | .01220 | .00230 | -11.65300 | 25.00000 | -4.98900 | .02010 | .00030 | .00430 | .00430 |
| .597 | -1.918 | 5.07810 | .01220 | .00230 | -11.65300 | 25.00000 | -4.96150 | .02010 | .00030 | .00430 | .00430 |
| .597 | -.870 | 4.96900 | .01220 | .00230 | -11.65300 | 25.00000 | -4.96150 | .02010 | .00030 | .00430 | .00430 |
| .597 | .034 | 4.86020 | .01220 | .00230 | -11.64200 | 25.00000 | -4.96150 | .02010 | .00030 | .00430 | .00430 |
| .597 | .648 | 5.01180 | .01220 | .00230 | -11.65300 | 25.00000 | -4.96150 | .02010 | .00030 | .00430 | .00430 |
| .597 | 1.155 | 5.05750 | .01220 | .00230 | -11.64200 | 25.00000 | -4.96150 | .02010 | .00030 | .00430 | .00430 |
| .597 | 2.192 | 5.00570 | .01220 | .00230 | -11.64200 | 25.00000 | -4.96150 | .02010 | .00030 | .00430 | .00430 |
| .597 | 3.223 | 4.98760 | .01220 | .00230 | -11.64200 | 25.00000 | -4.96900 | .02010 | .00030 | .00430 | .00430 |
| .597 | 4.257 | 4.97010 | .01220 | .00230 | -11.64200 | 25.00000 | -4.96900 | .02010 | .00030 | .00430 | .00430 |
| .596 | 6.318 | 4.94180 | .01220 | .00230 | -11.64200 | 25.00000 | -4.96900 | .02010 | .00030 | .00430 | .00430 |
| .596 | 8.361 | 4.92250 | .01220 | .00230 | -11.64200 | 25.00000 | -4.96900 | .02010 | .00030 | .00430 | .00430 |
| | GRADIENT | -.00476 | .00000 | .00000 | .00198 | .00000 | -.00079 | .00000 | .00000 | .00000 | .00000 |

RUN NO. 802/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | AIL-1B | ELV-OB | AIL-OB |
|------|----------|---------|--------|---------|-----------|----------|----------|--------|---------|--------|---------|
| .901 | -6.123 | 5.02800 | .00750 | -.01890 | -11.64200 | 25.00000 | -4.93150 | .00350 | -.02620 | .01150 | -.01150 |
| .902 | -1.948 | 5.00970 | .02070 | -.01140 | -11.64200 | 25.00000 | -4.94650 | .02000 | -.00980 | .02150 | -.01300 |
| .901 | -.899 | 4.99350 | .02070 | -.01140 | -11.64200 | 25.00000 | -4.94650 | .02000 | -.00980 | .02150 | -.01300 |
| .900 | .160 | 4.87280 | .02070 | -.01140 | -11.64200 | 25.00000 | -4.94650 | .02000 | -.00980 | .02150 | -.01300 |
| .901 | .671 | 5.00700 | .02070 | -.01140 | -11.64200 | 25.00000 | -4.94650 | .02000 | -.00980 | .02150 | -.01300 |
| .900 | 1.182 | 5.05350 | .02070 | -.01140 | -11.64200 | 25.00000 | -4.94650 | .02000 | -.00980 | .02150 | -.01300 |
| .900 | 2.226 | 4.98390 | .02070 | -.01140 | -11.64200 | 25.00000 | -4.94650 | .02000 | -.00980 | .02150 | -.01300 |
| .900 | 3.269 | 4.96700 | .02070 | -.01140 | -11.64200 | 25.00000 | -4.94650 | .02000 | -.00980 | .02150 | -.01300 |
| .899 | 4.312 | 4.95020 | .02070 | -.01140 | -11.64200 | 25.00000 | -4.94650 | .02000 | -.00980 | .02150 | -.01300 |
| .896 | 6.387 | 4.91470 | .02070 | -.01350 | -11.64200 | 25.00000 | -4.96900 | .02000 | -.00980 | .02150 | -.01300 |
| .896 | 8.449 | 4.89510 | .01860 | -.01350 | -11.64200 | 25.00000 | -4.97650 | .02000 | -.00980 | .01730 | -.01730 |
| | GRADIENT | -.00463 | .00000 | -.00000 | -.00000 | .00000 | -.00198 | .00000 | -.00000 | .00000 | -.00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1219

AMES 118-1-11 OAI45A 01

(C2F0E3) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = 16.300
 SPOBRK = 25.000 RUDDER = -5.000
 RN/L = 5.000

RUN NO. 801/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|--------|---------|----------|----------|----------|--------|--------|---------|--------|
| .601 | -6.038 | 5.02200 | .02470 | -.00170 | 16.30800 | 25.00000 | -4.93900 | .02500 | .02430 | -.00470 | .00120 |
| .601 | -1.924 | 4.99910 | .02470 | -.00170 | 16.30800 | 25.00000 | -4.93900 | .02500 | .02430 | -.00470 | .00120 |
| .600 | -.888 | 4.97630 | .02470 | -.00170 | 16.30800 | 25.00000 | -4.93900 | .02500 | .02430 | -.00470 | .00120 |
| .600 | .033 | 4.89380 | .02470 | -.00170 | 16.30800 | 25.00000 | -4.94650 | .02500 | .02430 | -.00470 | .00120 |
| .600 | .672 | 5.00360 | .02470 | -.00170 | 16.30800 | 25.00000 | -4.94650 | .02500 | .02430 | -.00470 | .00120 |
| .600 | 1.156 | 5.02610 | .02470 | -.00170 | 16.30800 | 25.00000 | -4.94650 | .02500 | .02430 | -.00470 | .00120 |
| .600 | 2.190 | 5.00700 | .02470 | -.00170 | 16.30800 | 25.00000 | -4.94650 | .02500 | .02430 | -.00470 | .00120 |
| .599 | 3.221 | 4.99090 | .02470 | -.00170 | 16.30800 | 25.00000 | -4.94650 | .02500 | .02430 | -.00470 | .00120 |
| .599 | 4.257 | 4.97620 | .02470 | -.00170 | 16.30800 | 25.00000 | -4.95400 | .02500 | .02430 | -.00470 | .00120 |
| .599 | 6.316 | 4.94880 | .02470 | -.00170 | 16.30800 | 25.00000 | -4.95400 | .02500 | .02430 | -.00470 | .00120 |
| .598 | 8.363 | 4.93520 | .02470 | -.00170 | 16.30800 | 25.00000 | -4.95400 | .02500 | .02430 | -.00470 | .00120 |
| .598 | 9.966 | 4.91940 | .02470 | -.00170 | 16.30800 | 25.00000 | -4.95400 | .02500 | .02430 | -.00470 | .00120 |
| .600 | GRADIENT | .00249 | .00000 | -.00000 | .00000 | .00000 | -.00203 | .00000 | .00000 | -.00000 | .00000 |

RUN NO. 815/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|--------|---------|----------|----------|----------|--------|--------|---------|---------|
| .899 | -6.107 | 5.12310 | .03040 | -.00590 | 16.31800 | 25.00000 | -4.93900 | .04510 | .01580 | -.00440 | -.00730 |
| .899 | -1.944 | 5.10840 | .02790 | -.00840 | 16.31800 | 25.00000 | -4.94650 | .04000 | .01580 | -.00950 | -.00730 |
| .899 | -.901 | 5.08020 | .02790 | -.00840 | 16.31800 | 25.00000 | -4.94650 | .04000 | .01580 | -.00950 | -.00730 |
| .900 | .122 | 4.91250 | .03000 | -.00620 | 16.32800 | 25.00000 | -4.95400 | .04000 | .02000 | -.00950 | -.00300 |
| .899 | .699 | 5.12540 | .02790 | -.00840 | 16.32800 | 25.00000 | -4.95400 | .04000 | .01580 | -.00950 | -.00730 |
| .899 | 1.181 | 5.10160 | .03000 | -.00620 | 16.31800 | 25.00000 | -4.95400 | .04000 | .02000 | -.00950 | -.00300 |
| .899 | 2.217 | 5.06820 | .03000 | -.00620 | 16.31800 | 25.00000 | -4.95400 | .04000 | .02000 | -.00950 | -.00300 |
| .898 | 3.259 | 5.05190 | .03000 | -.00620 | 16.32800 | 25.00000 | -4.95400 | .04000 | .02000 | -.00950 | -.00300 |
| .898 | 4.299 | 5.03680 | .02790 | -.00840 | 16.32800 | 25.00000 | -4.96900 | .04000 | .01580 | -.00950 | -.00730 |
| .898 | 6.371 | 5.01210 | .02790 | -.00840 | 16.32800 | 25.00000 | -4.97650 | .04000 | .01580 | -.00950 | -.00730 |
| .894 | 8.429 | 4.99860 | .02790 | -.00840 | 16.32800 | 25.00000 | -4.95400 | .04000 | .01580 | -.00950 | -.00730 |
| .895 | 10.480 | 5.01180 | .02790 | -.00840 | 16.32800 | 25.00000 | -4.96150 | .04000 | .01580 | -.00950 | -.00730 |
| | GRADIENT | -.00488 | .00016 | .00017 | .00128 | .00000 | -.00281 | .00000 | .00032 | -.00000 | .00033 |

OAI45 TABULATED FORCE DATA

AMES 118-1-11 OAI45A 01

DATE 10 MAR 80

(C2F0E4) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA =
ELEVON =
SPDBRK =
RU/L =
5.000 BETA =
.000 AILRON =
.000 RUDDER =
5.000

| | | RUN NO. 656/ 0 | | RN/L = 4.99 | | GRADIENT INTERVAL = -5.00/ 5.00 | | | |
|------|----------|----------------|---------|-------------|---------|---------------------------------|---------|---------|---------|
| | | RUN NO. 643/ 0 | | RN/L = 4.98 | | GRADIENT INTERVAL = -5.00/ 5.00 | | | |
| MACH | BOFLAP | ALPHA | BETA | ELEVON | AILRON | SPDBRK | RUDDER | ELV-IB | AIL-IB |
| .598 | -11.653 | 4.97390 | .02780 | .01460 | -.00520 | .00000 | -.10960 | .00430 | -.01470 |
| .598 | -7.940 | 4.97930 | .02780 | .01460 | -.00520 | .00000 | -.10960 | .00430 | -.01470 |
| .598 | -5.927 | 4.98160 | .02780 | .01250 | -.00740 | .00000 | -.10960 | .00000 | -.01470 |
| .598 | -3.950 | 4.98780 | .02770 | .01460 | -.00520 | .00000 | -.10960 | .00430 | -.01470 |
| .599 | -1.950 | 4.99100 | .02760 | .01460 | -.00520 | .00000 | -.10960 | .00430 | -.01470 |
| .598 | .010 | 4.99350 | .02740 | .01460 | -.00520 | .00000 | -.10960 | .00430 | -.01470 |
| .598 | 1.998 | 4.99810 | .02760 | .01460 | -.00520 | .00000 | -.10960 | .00430 | -.01470 |
| .598 | 3.996 | 5.00170 | .02760 | .01460 | -.00520 | .00000 | -.10960 | .00430 | -.01470 |
| .598 | 6.020 | 5.00670 | .02770 | .01460 | -.00520 | .00000 | -.10960 | .00430 | -.01470 |
| .598 | 8.010 | 5.01130 | .02740 | .01460 | -.00520 | .00000 | -.10960 | .00430 | -.01470 |
| .598 | 11.999 | 5.02190 | .02710 | .01460 | -.00520 | .00000 | -.10960 | .00430 | -.01470 |
| .598 | 16.308 | 5.03390 | .02690 | .01250 | -.00740 | .00000 | -.10960 | .00000 | -.01470 |
| .598 | 22.547 | 5.05530 | .02700 | .01250 | -.00740 | .00000 | -.10960 | .00000 | -.01470 |
| | GRADIENT | .00176 | -.00001 | -.00000 | -.00000 | .00000 | -.00000 | .00000 | .00000 |
| MACH | BOFLAP | ALPHA | BETA | ELEVON | AILRON | SPDBRK | RUDDER | ELV-IB | AIL-IB |
| .900 | -11.653 | 4.97520 | .03190 | .00710 | .00220 | .00000 | -.10290 | .00430 | .00010 |
| .900 | -7.960 | 4.98400 | .03180 | .00710 | .00220 | .00000 | -.09620 | .00430 | .00010 |
| .900 | -5.948 | 4.98660 | .03140 | .00710 | .00220 | .00000 | -.09620 | .00430 | .00010 |
| .901 | -3.950 | 4.99010 | .03150 | .00710 | .00220 | .00000 | -.09620 | .00430 | .00010 |
| .901 | -1.940 | 4.99250 | .03140 | .00710 | .00220 | .00000 | -.09620 | .00430 | .00010 |
| .900 | .019 | 4.99750 | .03130 | .00500 | .00010 | .00000 | -.09620 | .00000 | .00010 |
| .901 | 1.998 | 5.00390 | .03110 | .00500 | .00010 | .00000 | -.09620 | .00000 | .00010 |
| .900 | 3.996 | 5.00510 | .03110 | .00500 | .00010 | .00000 | -.09620 | .00000 | .00010 |
| .901 | 6.000 | 5.01300 | .03100 | .00500 | .00010 | .00000 | -.09340 | .00000 | .00010 |
| .900 | 8.020 | 5.01770 | .03060 | .00500 | .00010 | .00000 | -.09620 | .00000 | .00010 |
| .900 | 12.009 | 5.02960 | .03020 | .00500 | .00010 | .00000 | -.09620 | .00000 | .00010 |
| .899 | 16.308 | 5.04650 | .02960 | .00500 | .00010 | .00000 | -.08940 | .00000 | .00010 |
| .900 | 22.528 | 5.06970 | .02910 | .00250 | -.00250 | .00000 | -.08940 | -.00510 | .00010 |
| | GRADIENT | .00209 | -.00006 | -.00032 | -.00032 | .00000 | -.00000 | -.00065 | .00000 |

DATE 10 MAR 80

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(C2F0E5) (08 JUL 77)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 SPOBRK = 55.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 597/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BOFLAP | ALPHA | BETA | ELEVON | AILRON | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|---------|---------|----------|---------|--------|---------|---------|---------|
| .396 | -11.653 | 4.97440 | .03160 | .02210 | -.00850 | 55.00000 | -.14110 | .02990 | .01430 | -.01970 | .00270 |
| .396 | -7.940 | 4.97950 | .03150 | .02210 | -.00850 | 55.00000 | -.13210 | .02990 | .01430 | -.01970 | .00270 |
| .396 | -5.948 | 4.98160 | .03150 | .02210 | -.00850 | 55.00000 | -.13210 | .02990 | .01430 | -.01970 | .00270 |
| .395 | -3.866 | 4.98280 | .03150 | .02210 | -.00850 | 55.00000 | -.14110 | .02990 | .01430 | -.01970 | .00270 |
| .395 | -1.940 | 4.98520 | .03160 | .02210 | -.00850 | 55.00000 | -.14110 | .02990 | .01430 | -.01970 | .00270 |
| .394 | .019 | 4.98660 | .03150 | .02210 | -.00850 | 55.00000 | -.14110 | .02990 | .01430 | -.01970 | .00270 |
| .396 | 2.008 | 4.99210 | .03150 | .01990 | -.01060 | 55.00000 | -.15000 | .02990 | .01430 | -.01970 | .00270 |
| .397 | 3.975 | 4.99590 | .03150 | .02210 | -.00850 | 55.00000 | -.15000 | .02990 | .01430 | -.01970 | .00270 |
| .397 | 6.010 | 4.99910 | .03140 | .02210 | -.00850 | 55.00000 | -.15900 | .02990 | .01430 | -.01970 | .00270 |
| .397 | 8.010 | 5.00320 | .03130 | .02210 | -.00850 | 55.00000 | -.15900 | .02990 | .01430 | -.01970 | .00850 |
| .397 | 11.999 | 5.00940 | .03130 | .01920 | -.00560 | 55.00000 | -.15000 | .02990 | .01430 | -.01970 | .00270 |
| .398 | 16.318 | 5.01640 | .03150 | .02210 | -.00850 | 55.00000 | -.15000 | .02990 | .01430 | -.01970 | .00270 |
| .397 | 22.547 | 5.02940 | .03150 | .02210 | -.00850 | 55.00000 | -.08940 | .02990 | .01430 | -.01970 | .00270 |
| | GRADIENT | .00169 | -.00001 | -.00011 | -.00011 | .00000 | -.00091 | .00000 | -.00022 | -.00000 | -.00021 |

RUN NO. 595/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BOFLAP | ALPHA | BETA | ELEVON | AILRON | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|--------|---------|----------|---------|--------|--------|---------|---------|
| .597 | -11.653 | 4.97250 | .02580 | .01990 | -.01060 | 55.00000 | -.14110 | .02990 | .01000 | -.01970 | .00150 |
| .597 | -7.950 | 4.97870 | .02570 | .01990 | -.01060 | 55.00000 | -.12310 | .02990 | .01000 | -.01970 | .00150 |
| .598 | -5.938 | 4.98130 | .02560 | .01990 | -.01060 | 55.00000 | -.12310 | .02990 | .01000 | -.01970 | .00150 |
| .598 | -3.950 | 4.98470 | .02560 | .01990 | -.01060 | 55.00000 | -.10960 | .02990 | .01000 | -.01970 | .00150 |
| .598 | -1.940 | 4.98850 | .02570 | .01990 | -.01060 | 55.00000 | -.10290 | .02990 | .01000 | -.01970 | .00150 |
| .597 | .029 | 4.99310 | .02560 | .01990 | -.01060 | 55.00000 | -.10960 | .02990 | .01000 | -.01970 | .00150 |
| .597 | 1.998 | 4.99730 | .02560 | .01990 | -.01060 | 55.00000 | -.08270 | .02990 | .01000 | -.01970 | .00150 |
| .597 | 3.996 | 5.00250 | .02540 | .01990 | -.01060 | 55.00000 | -.10290 | .02990 | .01000 | -.01970 | .00150 |
| .597 | 6.010 | 5.00740 | .02540 | .01990 | -.01060 | 55.00000 | -.01520 | .02990 | .01000 | -.01970 | .00150 |
| .597 | 8.010 | 5.01120 | .02510 | .01990 | -.01060 | 55.00000 | -.05570 | .02990 | .01000 | -.01970 | .00150 |
| .597 | 12.009 | 5.02030 | .02480 | .01990 | -.01060 | 55.00000 | -.09620 | .02990 | .01000 | -.01970 | .00150 |
| .597 | 16.318 | 5.03100 | .02480 | .01990 | -.01060 | 55.00000 | -.04220 | .02990 | .01000 | -.01970 | .00150 |
| .597 | 22.528 | 5.02320 | .02520 | .01990 | -.01060 | 55.00000 | -.11640 | .02990 | .01000 | -.01970 | .00150 |
| | GRADIENT | .00224 | -.00003 | .00000 | -.00000 | .00000 | .00169 | .00000 | .00000 | -.00000 | -.00000 |

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 569/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BDFLAP | ALPHA | BETA | ELEVON | AILRON | SPOBRK | RUDDER | ELV-08 | AIL-08 | AIL-08 |
|------|----------|---------|---------|--------|---------|----------|---------|--------|---------|---------|
| .899 | -11.653 | 4.95870 | .03210 | .01710 | -.00350 | 55.00000 | -.2310 | .01430 | -.00980 | .00270 |
| .899 | -7.950 | 4.96300 | .03190 | .01710 | -.00350 | 55.00000 | -.2310 | .01430 | -.00980 | .00270 |
| .899 | -5.927 | 4.96770 | .03180 | .01710 | -.00350 | 55.00000 | -.12310 | .01430 | -.00980 | .00270 |
| .900 | -3.930 | 4.97260 | .03170 | .01710 | -.00350 | 55.00000 | -.15900 | .01430 | -.00980 | .00270 |
| .901 | -1.940 | 4.97830 | .03160 | .01710 | -.00350 | 55.00000 | -.15000 | .01430 | -.00980 | .00270 |
| .899 | .019 | 4.98040 | .03160 | .01710 | -.00350 | 55.00000 | -.15000 | .01430 | -.00980 | .00270 |
| .900 | 2.008 | 4.98740 | .03130 | .01710 | -.00350 | 55.00000 | -.14110 | .01430 | -.00980 | .00270 |
| .900 | 4.007 | 4.99140 | .03100 | .01710 | -.00350 | 55.00000 | -.13210 | .01430 | -.00980 | .00270 |
| .900 | 6.000 | 4.99630 | .03090 | .01710 | -.00350 | 55.00000 | -.13210 | .01430 | -.00980 | .00270 |
| .900 | 8.020 | 5.00370 | .03070 | .01710 | -.00350 | 55.00000 | -.12310 | .01430 | -.00980 | .00270 |
| .899 | 12.009 | 5.01640 | .03060 | .01710 | -.00350 | 55.00000 | -.12310 | .01430 | -.00980 | .00270 |
| .900 | 16.318 | 5.03340 | .03010 | .01710 | -.00350 | 55.00000 | -.12310 | .01430 | -.00980 | .00270 |
| .900 | 22.585 | 5.05790 | .02940 | .01500 | -.00560 | 55.00000 | -.11640 | .01000 | -.00980 | -.00150 |
| .899 | GRADIENT | .00236 | -.00009 | .00000 | -.00000 | .00000 | .00090 | .00000 | -.00000 | .00000 |

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 SPOBRK = 55.000 RUDDER = .000
 RN/L = 5.000

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 844/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-08 | BETA | ELEVON | AILRON | POFLAP | SPOBRK | RUDDER | ELV-08 | AIL-08 | AIL-08 |
|------|----------|--------|----------|---------|--------|----------|---------|---------|---------|---------|
| .596 | -3.930 | .02710 | -1.95200 | -.00910 | .00000 | 25.00000 | -.15900 | .02580 | -.00950 | -.00880 |
| .596 | -1.941 | .02690 | -.96050 | -.00650 | .00000 | 25.00000 | -.12310 | .02000 | -.01010 | -.00300 |
| .597 | .040 | .02680 | .03290 | -.00910 | .00000 | 25.00000 | -.12310 | .02580 | -.00950 | -.00880 |
| .596 | 2.017 | .02650 | 1.02150 | -.00570 | .00000 | 25.00000 | -.12310 | .02580 | -.00280 | -.00880 |
| .596 | 4.010 | .02660 | 2.01500 | -.00570 | .00000 | 25.00000 | -.12310 | .02000 | -.00830 | -.00300 |
| .596 | GRADIENT | .01263 | .49985 | .00038 | .00000 | -.00000 | .00362 | -.00029 | .00049 | .00029 |

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 SPOBRK = 25.000
 RN/L = 5.000

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(C2F0E6) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 838/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-18 | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-18 | AIL-08 |
|----------|--------|---------|---------|----------|---------|--------|----------|---------|--------|---------|--------|
| .900 | -3.925 | 4.99450 | .03100 | -1.95810 | .00210 | .00000 | 25.00000 | -.12310 | .00850 | -.00430 | .00850 |
| .900 | -1.935 | 5.01830 | .03050 | -.96140 | .00900 | .00970 | 25.00000 | -.13210 | .01280 | .00520 | .01280 |
| .899 | .030 | 5.04050 | .03050 | .02140 | .00160 | .00000 | 25.00000 | -.12310 | .01280 | -.00960 | .01280 |
| .900 | 2.012 | 5.06590 | .02990 | 1.01230 | .00230 | .00000 | 25.00000 | -.12310 | .01280 | -.00820 | .01280 |
| .900 | 3.996 | 5.09970 | .02930 | 2.00430 | .00430 | .00970 | 25.00000 | -.12310 | .01280 | -.00410 | .01280 |
| GRADIENT | .01294 | .00020 | -.00020 | .50022 | -.00011 | .00049 | -.00000 | .00045 | .00043 | -.00065 | .00043 |

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELV-08 = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = 25.000
 RUDDER = .000 RN/L = 5.000

RUN NO. 820/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-18 | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-18 | AIL-08 |
|----------|--------|---------|--------|----------|---------|---------|----------|---------|---------|---------|--------|
| 1.198 | -3.936 | 5.04320 | .03200 | -1.96010 | -.00010 | .00970 | 25.00000 | -.08940 | .01580 | .00710 | .00730 |
| 1.199 | -1.941 | 5.07630 | .03260 | -.96270 | .00870 | .00970 | 25.00000 | -.08940 | .01580 | -.01010 | .00730 |
| 1.199 | .010 | 5.09830 | .03310 | .01290 | -.00360 | .00970 | 25.00000 | -.08940 | .01580 | .00010 | .00730 |
| 1.199 | 2.022 | 5.08840 | .03230 | 1.01900 | -.00750 | .00000 | 25.00000 | -.08940 | .01580 | -.00780 | .00730 |
| 1.200 | 4.010 | 5.10770 | .03240 | 2.01000 | -.00490 | .00970 | 25.00000 | -.08940 | .01000 | -.00830 | .00150 |
| GRADIENT | .00711 | .00002 | .00002 | .49970 | -.00042 | -.00049 | .00000 | .00000 | -.00059 | -.00144 | .00059 |

AMES 118-1-11 OAI45A 01

(C2F0E7) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 845/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-18 | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-18 | AIL-08 |
|----------|--------|---------|---------|---------|---------|--------|----------|---------|---------|---------|--------|
| .597 | 1.025 | 5.00030 | .02730 | 3.01360 | -.00050 | .00000 | 25.00000 | -.11640 | 5.00220 | .00490 | .00580 |
| .597 | 3.022 | 5.02600 | .02700 | 4.00980 | -.00920 | .00000 | 25.00000 | -.10960 | 4.99730 | -.00770 | .01070 |
| .596 | 5.016 | 5.04860 | .02680 | 5.00360 | -.00780 | .00000 | 25.00000 | -.12310 | 4.99160 | -.01080 | .00490 |
| .597 | 7.008 | 5.07700 | .02650 | 5.99970 | -.01490 | .00000 | 25.00000 | -.12310 | 4.99160 | -.02490 | .00490 |
| .597 | 9.025 | 5.10970 | .02620 | 7.00810 | -.01980 | .00000 | 25.00000 | -.10960 | 4.99160 | -.03470 | .00490 |
| GRADIENT | .01287 | .00015 | -.00015 | .49880 | -.00435 | .00000 | .00000 | .00340 | -.00245 | -.00631 | .00245 |

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELV-08 = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = 25.000
 RUDDER = .000 RN/L = 5.000

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(C2F0E7) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 839/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | | | | | | | | |
|------|----------|---------|--------|---------|---------|--------|----------|---------|---------|---------|--------|
| MACH | ELV-1B | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-1B | AIL-OB |
| .901 | 1.010 | 5.05500 | .03060 | 3.01090 | .00180 | .00970 | 25.00000 | -.11640 | 5.01190 | -.00020 | .00390 |
| .900 | 3.023 | 5.08860 | .03020 | 4.01740 | .00340 | .00970 | 25.00000 | -.11640 | 5.01190 | .00290 | .00390 |
| .900 | 4.998 | 5.08210 | .03070 | 5.00210 | -.00930 | .00970 | 25.00000 | -.11640 | 5.00610 | -.02820 | .00960 |
| .900 | 7.002 | 5.09310 | .03070 | 6.00430 | -.00490 | .00970 | 25.00000 | -.11640 | 5.00610 | -.01940 | .00960 |
| .898 | 9.023 | 5.12520 | .03060 | 7.01450 | -.00760 | .00970 | 25.00000 | -.12310 | 5.00610 | -.02470 | .00960 |
| | GRADIENT | .00683 | .00002 | .49928 | -.00277 | .00000 | .00000 | .00000 | -.00145 | -.00699 | .00142 |

RUN NO. 821/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | | | | | | | | |
|-------|----------|---------|--------|---------|---------|--------|----------|---------|---------|---------|--------|
| MACH | ELV-1B | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-1B | AIL-OB |
| 1.200 | 1.005 | 5.07220 | .03160 | 3.00110 | -.00800 | .00970 | 25.00000 | -.09620 | 4.99730 | -.00530 | .01070 |
| 1.201 | 3.007 | 5.09160 | .03190 | 4.00210 | -.00690 | .00970 | 25.00000 | -.09620 | 4.99730 | -.00320 | .01070 |
| 1.200 | 4.998 | 5.10650 | .03200 | 4.99770 | -.01940 | .00970 | 25.00000 | -.09620 | 4.99730 | -.02820 | .01070 |
| 1.199 | 6.999 | 5.12940 | .03240 | 5.99830 | -.02750 | .00970 | 25.00000 | -.09620 | 4.99730 | -.04440 | .01070 |
| 1.200 | 9.025 | 5.14710 | .03270 | 7.01100 | -.02270 | .00970 | 25.00000 | -.10960 | 4.99730 | -.03470 | .01070 |
| | GRADIENT | .00903 | .00010 | .49999 | -.00285 | .00000 | .00000 | .00000 | .00000 | -.00573 | .00000 |

AMES 118-1-11 OAI45A 01

(C2F0E8) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 846/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | | | | | | | | |
|------|----------|---------|---------|----------|---------|--------|----------|---------|----------|---------|--------|
| MACH | ELV-1B | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-OB | AIL-1B | AIL-OB |
| .600 | -8.929 | 4.93320 | .02740 | -6.93810 | -.00820 | .00000 | 25.00000 | -.11640 | -4.94680 | -.00090 | .01550 |
| .598 | -6.943 | 4.95830 | .02720 | -5.94770 | -.00670 | .00000 | 25.00000 | -.10960 | -4.95250 | -.00350 | .00990 |
| .598 | -4.925 | 4.98340 | .02690 | -4.93600 | -.01040 | .00000 | 25.00000 | -.11640 | -4.94680 | -.00520 | .01550 |
| .597 | -2.930 | 5.00900 | .02670 | -3.94120 | -.00500 | .00000 | 25.00000 | -.11640 | -4.95250 | -.00010 | .00990 |
| .598 | -.942 | 4.99600 | .02660 | -2.94700 | -.00100 | .00000 | 25.00000 | -.10960 | -4.95250 | .00790 | .00990 |
| | GRADIENT | .00317 | -.00008 | .49930 | .00236 | .00000 | .00000 | .00171 | -.00143 | .00329 | .00141 |

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELV-OB = -5.000 AILRON = .000
 BDFLAP = .000 SPDBRK = 25.000
 RUDDER = .000 RN/L = 5.000

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELV-OB = 5.000 AILRON = .000
 BDFLAP = .000 SPDBRK = 25.000
 RUDDER = .000 RN/L = 5.000

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(C2F0E9) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 840/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-OB | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | AIL-OB | AIL-IB | AIL-OB |
|------|----------|--------|----------|---------|---------|----------|----------|---------|---------|
| .900 | -8.940 | .03020 | -6.93920 | .00150 | .00970 | 25.00000 | -4.93810 | -.00160 | AIL-OB |
| .900 | -6.932 | .03010 | -5.93750 | .00350 | .00970 | 25.00000 | -4.94290 | .00730 | -.00450 |
| .900 | -4.925 | .03060 | -4.93680 | .00560 | .00970 | 25.00000 | -4.94850 | .00570 | -.00540 |
| .900 | -2.935 | .03070 | -3.94130 | -.00510 | .00970 | 25.00000 | -4.94770 | -.00510 | -.00510 |
| .899 | -.911 | .03100 | -2.93230 | -.01090 | .00970 | 25.00000 | -4.95330 | -.02240 | -.00060 |
| | GRADIENT | .00010 | .49941 | -.00411 | -.00000 | .00000 | -.00120 | -.00701 | -.00118 |

RUN NO. 822/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-OB | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | AIL-OB | AIL-IB | AIL-OB |
|-------|----------|--------|----------|---------|--------|----------|----------|---------|---------|
| 1.205 | -8.940 | .03420 | -6.94160 | -.00090 | .00970 | 25.00000 | -4.94290 | -.00160 | AIL-OB |
| 1.200 | -6.942 | .03460 | -5.94030 | .00570 | .00970 | 25.00000 | -4.93810 | .00690 | -.00450 |
| 1.201 | -4.936 | .03290 | -4.94230 | .00000 | .00970 | 25.00000 | -4.94850 | -.00540 | .00540 |
| 1.200 | -2.930 | .03360 | -3.93920 | .00260 | .00970 | 25.00000 | -4.94850 | -.00010 | .00540 |
| 1.200 | .936 | .03410 | -2.93970 | .00130 | .00970 | 25.00000 | -4.94290 | .00290 | -.00030 |
| | GRADIENT | .00030 | .50070 | .00033 | .00000 | -.00000 | .00140 | .00208 | -.00142 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 847/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-OB | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | AIL-OB | AIL-IB | AIL-OB |
|------|----------|--------|----------|---------|--------|----------|--------|---------|---------|
| .598 | -3.951 | .02650 | -1.96520 | .00480 | .00000 | 25.00000 | .02020 | .01030 | AIL-OB |
| .598 | -1.980 | .02650 | -.98000 | -.00370 | .00000 | 25.00000 | .02020 | .01030 | -.00070 |
| .598 | .016 | .02640 | .02050 | -.00090 | .00000 | 25.00000 | .02520 | .00540 | -.01780 |
| .598 | 1.996 | .02700 | 1.01080 | -.00330 | .00000 | 25.00000 | .02520 | .00540 | -.01210 |
| .598 | 4.002 | .02680 | 2.01100 | .00050 | .00000 | 25.00000 | .02020 | .01030 | -.00930 |
| | GRADIENT | .00006 | .50012 | -.00041 | .00000 | -.00000 | .00025 | -.00025 | -.00057 |

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELV-OB = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = 25.000
 RUDDER = 5.000

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(C2F0E9) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 BETA = .000
 ELV-1B = .000 AILRON = .000
 BDFLAP = .000 SPOBRK = 25.000
 RUDDER = .000 RN/L = 5.000

RUN NO. 841/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-OB | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | AIL-1B | AIL-OB |
|------|----------|---------|---------|----------|---------|---------|----------|---------|--------|---------|---------|
| .900 | -3.951 | 5.02670 | .03060 | -1.96280 | .00230 | .00970 | 25.00000 | -.14110 | .02520 | .00540 | -.00070 |
| .900 | -1.954 | 5.02410 | .03060 | -.96450 | .00680 | .00970 | 25.00000 | -.12310 | .02520 | .00540 | .00820 |
| .899 | .024 | 5.02100 | .03070 | .02470 | -.00170 | .00970 | 25.00000 | -.13210 | .02500 | -.00470 | .00120 |
| .900 | 2.007 | 5.02910 | .03070 | 1.01860 | -.00050 | .00970 | 25.00000 | -.11640 | .03010 | .00040 | -.00140 |
| .899 | 4.017 | 5.04900 | .03020 | 2.02360 | .00320 | .00970 | 25.00000 | -.10960 | .03010 | .00040 | .00600 |
| | GRADIENT | .00250 | -.00004 | .50037 | -.00027 | -.00000 | -.00000 | .00351 | .00074 | -.00075 | .00019 |

RUN NO. 823/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-OB | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | AIL-1B | AIL-OB |
|-------|----------|---------|--------|----------|---------|--------|----------|---------|--------|---------|---------|
| 1.201 | -3.946 | 5.03030 | .03250 | -1.96050 | -.00030 | .00970 | 25.00000 | -.12310 | .02500 | -.00470 | .00400 |
| 1.200 | -1.954 | 5.08780 | .03290 | -.96200 | .00430 | .00970 | 25.00000 | -.12310 | .02500 | .00040 | .00820 |
| 1.201 | .000 | 5.09530 | .03310 | .01250 | -.00230 | .00970 | 25.00000 | -.12310 | .02500 | -.00470 | .00000 |
| 1.200 | 1.997 | 5.10330 | .03300 | 1.01340 | -.00060 | .00970 | 25.00000 | -.12310 | .03010 | .00040 | -.00170 |
| 1.201 | 3.997 | 5.11100 | .03330 | 2.01340 | -.00700 | .00970 | 25.00000 | -.12310 | .03010 | .00040 | -.01440 |
| | GRADIENT | .00388 | .00009 | .50026 | -.00092 | .00000 | .00000 | -.00000 | .00052 | .00052 | -.00236 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 BETA = .000
 ELV-1B = .000 AILRON = .000
 BDFLAP = .000 SPOBRK = 25.000
 RUDDER = .000 RN/L = 5.000

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RUN NO. 848/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-OB | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | AIL-1B | AIL-OB |
|------|----------|---------|--------|---------|---------|--------|----------|---------|---------|---------|---------|
| .597 | 1.019 | 5.05160 | .02670 | 3.01380 | -.02180 | .00000 | 25.00000 | -.08270 | 5.00880 | -.03890 | -.00480 |
| .598 | 3.009 | 5.06610 | .02680 | 4.00890 | -.02650 | .00000 | 25.00000 | -.08270 | 5.00880 | -.03890 | -.01400 |
| .598 | 5.008 | 5.01710 | .02790 | 5.00840 | -.02520 | .00000 | 25.00000 | -.07590 | 5.00880 | -.03890 | -.01160 |
| .598 | 7.015 | 5.03500 | .02780 | 6.01200 | -.01860 | .00000 | 25.00000 | -.08270 | 5.00880 | -.03890 | .00160 |
| .598 | 9.015 | 5.05500 | .02750 | 7.00950 | -.01950 | .00000 | 25.00000 | -.08270 | 5.00340 | -.03360 | -.00540 |
| | GRADIENT | .00729 | .00005 | .49997 | -.00236 | .00000 | -.00000 | .00000 | .00000 | .00000 | -.00462 |

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(C2F0F0) (08 JUL 77)

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REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELV-1B = 5.000 AILRON = .000
 BOFLAP = .000 SPDBRK = 25.000
 RUDDER = .000 RN/L = 5.000

RUN NO. 842/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-OB | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-1B | AIL-1B | AIL-OB |
|------|----------|---------|--------|---------|---------|--------|----------|---------|---------|---------|---------|
| .900 | 1.014 | 5.06340 | .03030 | 3.01460 | -.01560 | .00970 | 25.00000 | -.12310 | 5.01510 | -.02190 | -.00930 |
| .899 | 3.014 | 5.07060 | .03070 | 4.01480 | -.01040 | .00970 | 25.00000 | -.11640 | 5.01510 | -.02190 | -.00110 |
| .901 | 5.002 | 5.09930 | .02980 | 5.00600 | -.01120 | .00970 | 25.00000 | -.11640 | 5.00970 | -.01660 | -.00580 |
| .899 | 7.002 | 5.09680 | .03080 | 6.00580 | -.01410 | .00970 | 25.00000 | -.10290 | 5.00970 | -.01660 | -.01170 |
| .900 | 9.015 | 5.09950 | .03160 | 7.01260 | -.01100 | .00970 | 25.00000 | -.10960 | 5.00970 | -.01660 | -.00540 |
| | GRADIENT | .00360 | .00020 | .50002 | .00260 | .00000 | -.00000 | .00335 | -.00000 | .00000 | .00520 |

RUN NO. 824/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-OB | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-1B | AIL-1B | AIL-OB |
|-------|----------|---------|--------|---------|---------|---------|----------|---------|---------|---------|---------|
| 1.200 | 1.005 | 5.08840 | .03120 | 3.00720 | -.02310 | .00970 | 25.00000 | -.12310 | 5.00930 | -.02770 | -.01840 |
| 1.200 | 3.014 | 5.09570 | .03180 | 4.01190 | -.01330 | .00970 | 25.00000 | -.12310 | 5.00930 | -.02770 | -.00110 |
| 1.201 | 4.998 | 5.10630 | .03180 | 5.00370 | -.02450 | .00970 | 25.00000 | -.13210 | 5.00930 | -.02770 | -.02130 |
| 1.200 | 7.005 | 5.11460 | .03200 | 6.00490 | -.02040 | .00970 | 25.00000 | -.14110 | 5.00340 | -.03360 | -.00720 |
| 1.200 | 9.007 | 5.12560 | .03210 | 7.00800 | -.01610 | .00970 | 25.00000 | -.14110 | 5.00930 | -.02770 | -.00440 |
| | GRADIENT | .00448 | .00015 | .49999 | -.00034 | -.00000 | .00000 | -.00225 | .00000 | .00000 | -.00070 |

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(C2F0F1) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELV-1B = -5.000 AILRON = .000
 BOFLAP = .000 SPDBRK = 25.000
 RUDDER = .000 RN/L = 5.000

RUN NO. 849/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-OB | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | RUDDER | ELV-1B | AIL-1B | AIL-OB |
|------|----------|---------|---------|----------|---------|---------|----------|---------|----------|--------|---------|
| .598 | -8.945 | 4.79030 | .02900 | -6.93230 | .00340 | .00000 | 25.00000 | -.08270 | -4.91960 | .00030 | .00640 |
| .598 | -6.944 | 4.80740 | .02890 | -5.93170 | -.00670 | .00000 | 25.00000 | -.07590 | -4.91960 | .00030 | -.01370 |
| .598 | -4.937 | 4.81880 | .02890 | -4.92840 | -.00280 | .04850 | 25.00000 | -.08270 | -4.91960 | .00030 | -.00590 |
| .598 | -2.940 | 4.82400 | .02870 | -3.93000 | -.00080 | .00000 | 25.00000 | -.06920 | -4.91960 | .00030 | -.00200 |
| .598 | -.940 | 4.85090 | .02850 | -2.92990 | -.00450 | .00000 | 25.00000 | -.06920 | -4.91960 | .00030 | -.00930 |
| | GRADIENT | .00803 | -.00010 | .50000 | -.00043 | -.01213 | .00000 | .00338 | .00000 | .00000 | -.00085 |

DATE 10 MAR 80

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(C2F0F1) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO.

843/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH
 .901
 .901
 .901
 .901
 .899

ELV-08
 -8.960
 -6.948
 -4.952
 -2.951
 -.930
 GRADIENT

ALPHA
 4.96620
 4.97630
 4.97550
 4.98310
 4.98580
 .00256

BETA
 .03070
 .03070
 .03100
 .03060
 .03060
 -.00010

ELEVON
 -6.94550
 -5.93680
 -4.93840
 -3.93790
 -2.92760
 .50001

AILRON
 .00590
 -.01180
 -.01280
 .00150
 -.00220
 .00263

BOFLAP
 .00970
 .00970
 .00000
 .00000
 .00970
 .00242

SPOBRK
 25.00000
 25.00000
 25.00000
 25.00000
 25.00000
 .00000

RUDDER
 -.12310
 -.11640
 -.11640
 -.11640
 -.11640
 -.00000

ELV-1B
 -4.93060
 -4.92520
 -4.92520
 -4.92520
 -4.92520
 .00000

AIL-1B
 .00020
 -.00520
 -.00520
 -.00520
 -.00520
 -.00000

AIL-08
 .01150
 -.01850
 -.02030
 .00820
 .00080
 .00523

ALPHA = 5.000 BETA = .000
 ELV-1B = -5.000 AILRON = .000
 BOFLAP = .000 SPOBRK = 25.000
 RUDDER = .000 RN/L = 5.000

PARAMETRIC DATA

MACH
 1.203
 1.201
 1.200
 1.201
 1.200

ELV-08
 -8.960
 -6.951
 -4.953
 -2.956
 -.946
 GRADIENT

ALPHA
 5.02480
 5.03470
 5.04360
 5.05260
 5.06320
 .00489

BETA
 .03290
 .03260
 .03320
 .03310
 .03320
 .00000

ELEVON
 -6.95090
 -5.94610
 -4.94740
 -3.95140
 -2.94350
 .50000

AILRON
 .00580
 .00620
 .00030
 .00390
 -.00190
 -.00055

BOFLAP
 .00970
 .00970
 .00970
 .00970
 .00970
 .00000

SPOBRK
 25.00000
 25.00000
 25.00000
 25.00000
 25.00000
 .00000

RUDDER
 -.13210
 -.15000
 -.15000
 -.15000
 -.15000
 .00000

ELV-1B
 -4.94150
 -4.94150
 -4.94150
 -4.94710
 -4.94150
 .00000

AIL-1B
 .00010
 .00010
 .00010
 -.00550
 .00010
 .00000

AIL-08
 .01150
 .01240
 .00060
 .01330
 -.00390
 -.00113

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO.

850/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH
 .597
 .598
 .598
 .598
 .598

AIL-1B
 -3.984
 -1.980
 -.004
 1.977
 3.967
 GRADIENT

ALPHA
 5.03840
 5.04000
 4.97370
 4.97280
 4.97160
 -.01011

BETA
 .01980
 .02310
 .02690
 .02880
 .03120
 .00144

ELEVON
 .02850
 .02620
 .01970
 .01540
 .01960
 -.00144

AILRON
 -1.98540
 -.98380
 -.00010
 .99070
 1.98550
 .49936

BOFLAP
 .00000
 .00000
 .00000
 .00000
 .00000
 .00000

SPOBRK
 25.00000
 25.00000
 25.00000
 25.00000
 25.00000
 .00000

RUDDER
 -.06920
 -.07590
 -.07590
 -.08270
 -.06920
 -.00034

ELV-1B
 .04420
 .03960
 .03510
 .02660
 .03500
 -.00158

ELV-08
 .01280
 .01280
 .00430
 .00430
 .00430
 -.00128

AIL-08
 .01280
 .01280
 .00430
 .00430
 .00430
 -.00128

ALPHA = 5.000 BETA = .000
 ELEVON = .000 BOFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

PARAMETRIC DATA

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(C2F0F2) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO.

832/ 0

RN/L = 4.96

GRADIENT INTERVAL = -5.00/ 5.00

MACH
 .900
 .899
 .900
 .899
 .901

AIR-1B
 -3.978
 -1.986
 .015
 1.978
 3.956
 GRADIENT

ALPHA
 5.03850
 5.03870
 5.03790
 5.03800
 5.04220
 .00034

BETA
 .02270
 .02760
 .03090
 .03390
 .03730
 .00179

ELEVON
 .02680
 .01930
 .01900
 .01840
 .02430
 -.00030

AIRLON
 -1.98700
 -.99070
 .01410
 .98880
 1.98440
 .50032

SPDBRK
 25.00000
 25.00000
 25.00000
 25.00000
 25.00000
 -.00000

RUDDER
 -.06920
 -.06240
 -.06240
 -.07590
 -.07590
 -.00135

ELV-1B
 .04940
 .03440
 .02530
 .03680
 .03580
 -.00126

ELV-OB
 .00430
 .00430
 .01280
 .00000
 .01280
 .00064

AIR-OB
 .00430
 .00430
 .01280
 .00000
 .01280
 .00064

MACH
 1.200
 1.200
 1.199
 1.201
 1.200

AIR-1B
 -3.974
 -1.975
 -.020
 1.978
 3.967
 GRADIENT

ALPHA
 5.07770
 5.08240
 5.08360
 5.08020
 5.07880
 -.00000

BETA
 .03190
 .03340
 .03380
 .03260
 .03290
 .00006

ELEVON
 .02320
 .02820
 .01570
 .02420
 .02330
 -.00019

AIRLON
 -1.99290
 -.99330
 -.01570
 .98300
 1.97760
 .49999

SPDBRK
 25.00000
 25.00000
 25.00000
 25.00000
 25.00000
 .00000

RUDDER
 -.04900
 -.11640
 -.11640
 -.11640
 -.11640
 -.00680

ELV-1B
 .03500
 .04480
 .01980
 .03680
 .03500
 -.00039

ELV-OB
 .01150
 .01150
 .01150
 .01150
 .01150
 -.00000

AIR-OB
 .01150
 .01150
 .01150
 .01150
 .01150
 .00000

AMES 118-1-11 OAI45A 01

(C2F0F3) (08 JUL 77)

REFERENCE DATA

SREF = 2390.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO.

851/ 0

RN/L = 4.98

GRADIENT INTERVAL = -5.00/ 5.00

MACH
 .598
 .598
 .598
 .598
 .598

AIR-1B
 -4.008
 -2.014
 -.022
 1.993
 4.420
 GRADIENT

ALPHA
 5.01500
 5.01410
 5.01480
 5.01510
 5.01980
 .00053

BETA
 .02120
 .02450
 .02790
 .03030
 .03340
 .00144

ELEVON
 5.01990
 5.02360
 5.00550
 5.00820
 5.21880
 .01916

AIRLON
 -2.00210
 -1.00770
 -.01170
 .99340
 2.20980
 .49965

SPDBRK
 25.00000
 25.00000
 25.00000
 25.00000
 25.00000
 .00000

RUDDER
 -.06240
 -.05570
 -.06920
 -.06240
 -.06920
 -.00098

ELV-1B
 5.02790
 5.04010
 5.00390
 5.00350
 5.43060
 .03853

ELV-OB
 5.01190
 5.00700
 5.00700
 5.01280
 5.00700
 -.00020

AIR-OB
 .00390
 -.00100
 -.00100
 -.00670
 -.00100
 -.00071

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DATE 10 MAR 80

(C2F0F3) (08 JUL 77)

AMES 118-1-11 OAI145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = 5.000 BOFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 833/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIR-1B | ALPHA | BETA | ELEVON | AIRLON | BOFLAP | SPOBRK | RUDDER | ELV-1B | ELV-OB | AIR-OB |
|------|----------|---------|--------|---------|----------|--------|----------|---------|---------|---------|---------|
| .901 | -4.008 | 5.08160 | .02370 | 5.01750 | -2.00450 | .00970 | 25.00000 | -.19490 | 5.02790 | 5.00700 | -.00100 |
| .899 | -2.014 | 5.07300 | .02780 | 5.00970 | -1.00490 | .00970 | 25.00000 | -.12310 | 5.01820 | 5.00130 | .00480 |
| .899 | -.034 | 5.07730 | .03190 | 5.00520 | -.01730 | .00970 | 25.00000 | -.13210 | 5.00340 | 5.00700 | -.00100 |
| .899 | 1.981 | 5.07460 | .03510 | 5.00430 | .99030 | .00970 | 25.00000 | -.12310 | 5.00150 | 5.00700 | -.00100 |
| .899 | 4.424 | 5.08160 | .03950 | 5.02030 | 2.21700 | .00970 | 25.00000 | -.14110 | 5.43450 | 5.00610 | .00960 |
| | GRADIENT | -.00012 | .00186 | .02008 | .50039 | .00000 | .00000 | .00494 | .03997 | .00018 | .00078 |

RUN NO. 827/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIR-1B | ALPHA | BETA | ELEVON | AIRLON | BOFLAP | SPOBRK | RUDDER | ELV-1B | ELV-OB | AIR-OB |
|-------|----------|---------|--------|---------|----------|--------|----------|---------|---------|---------|---------|
| 1.200 | -4.013 | 5.10150 | .02970 | 5.01010 | -2.01190 | .00000 | 25.00000 | -.11640 | 5.02280 | 4.99730 | -.01070 |
| 1.200 | -2.009 | 5.10080 | .03140 | 5.00500 | -1.00990 | .00000 | 25.00000 | -.11640 | 5.01270 | 4.99730 | -.01070 |
| 1.199 | -.034 | 5.09920 | .03230 | 5.00040 | -.02210 | .00000 | 25.00000 | -.11640 | 5.00340 | 4.99730 | -.01070 |
| 1.200 | 1.981 | 5.09900 | .03300 | 4.99940 | .98540 | .00970 | 25.00000 | -.10960 | 5.00150 | 4.99730 | -.01070 |
| 1.200 | 4.424 | 5.10410 | .03420 | 5.21350 | 2.20440 | .00970 | 25.00000 | -.10960 | 5.43450 | 4.99250 | -.01550 |
| | GRADIENT | .00019 | .00051 | .02010 | .49975 | .00139 | .00000 | .00098 | .04069 | -.00048 | -.00048 |

AMES 118-1-11 OAI145A 01

(C2F0F4) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = 5.000 BOFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 852/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIR-1B | ALPHA | BETA | ELEVON | AIRLON | BOFLAP | SPOBRK | RUDDER | ELV-1B | ELV-OB | AIR-OB |
|------|----------|---------|--------|----------|----------|--------|----------|---------|----------|----------|---------|
| .600 | -4.564 | 4.95260 | .01980 | -5.21270 | -2.28240 | .00000 | 25.00000 | -.06240 | -5.49310 | -4.93240 | -.00110 |
| .598 | -2.377 | 4.95190 | .02300 | -5.12540 | -1.18920 | .00000 | 25.00000 | -.06920 | -5.31840 | -4.93240 | -.00110 |
| .598 | -.284 | 4.95360 | .02620 | -5.07350 | -.14240 | .00000 | 25.00000 | -.06920 | -5.21450 | -4.93240 | -.00110 |
| .598 | 1.925 | 4.95230 | .02890 | -4.97600 | .95940 | .00000 | 25.00000 | -.06240 | -5.01470 | -4.93720 | -.00590 |
| .598 | 3.940 | 4.95600 | .03080 | -4.96520 | 1.96420 | .00000 | 25.00000 | -.06920 | -4.99880 | -4.93160 | -.01160 |
| | GRADIENT | .00048 | .00131 | .03032 | .49939 | .00000 | -.00000 | -.00031 | .06081 | -.00016 | -.00121 |

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(C2F0F4) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 834/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIR-OB | ALPHA | BETA | ELEVON | AIRLON | BOFLAP | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIR-OB |
|------|----------|--------|--------|----------|----------|--------|----------|----------|----------|----------|---------|
| .902 | -4.564 | .02120 | .02120 | -5.22520 | -2.28990 | .00970 | 25.00000 | -1.13210 | -5.50370 | -4.94680 | -0.1550 |
| .900 | -2.383 | .02680 | .02680 | -5.12460 | -1.19970 | .00970 | 25.00000 | -1.13210 | -5.31270 | -4.93640 | -0.1640 |
| .900 | -.289 | .03110 | .03110 | -5.08030 | -.15490 | .00970 | 25.00000 | -1.13210 | -5.21950 | -4.94120 | -0.2120 |
| .899 | 1.915 | .03550 | .03550 | -4.98860 | .95240 | .00970 | 25.00000 | -1.13210 | -5.02470 | -4.95250 | -0.0990 |
| .899 | 3.945 | .03930 | .03930 | -4.97540 | 1.96480 | .00970 | 25.00000 | -1.14110 | -5.00390 | -4.94680 | -0.1550 |
| | GRADIENT | .00211 | .00211 | .02989 | .50016 | .00000 | .00000 | -.00125 | .06055 | -.00076 | .00031 |

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = -5.000 BOFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 826/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIR-OB | ALPHA | BETA | ELEVON | AIRLON | BOFLAP | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIR-OB |
|-------|----------|--------|--------|----------|----------|---------|----------|----------|----------|----------|---------|
| 1.201 | -4.575 | .02720 | .02720 | -5.23360 | -2.29260 | .00970 | 25.00000 | -1.11640 | -5.51470 | -4.95250 | -0.0990 |
| 1.200 | -2.389 | .03120 | .03120 | -5.12980 | -1.19930 | .00970 | 25.00000 | -1.11640 | -5.30710 | -4.95250 | -0.0990 |
| 1.201 | -.294 | .03290 | .03290 | -5.08330 | -.15200 | .00970 | 25.00000 | -1.11640 | -5.21410 | -4.95250 | -0.0990 |
| 1.200 | 1.910 | .03420 | .03420 | -4.99130 | .95030 | .00970 | 25.00000 | -1.11640 | -5.01960 | -4.96290 | -0.0900 |
| 1.201 | 3.934 | .03790 | .03790 | -4.98090 | 1.95980 | .00970 | 25.00000 | -1.2310 | -5.00450 | -4.95730 | -0.1470 |
| | GRADIENT | .00023 | .00114 | .03029 | .49980 | -.00000 | .00000 | -.00062 | .06153 | -.00095 | -.00040 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 853/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIR-OB | ALPHA | BETA | ELEVON | AIRLON | BOFLAP | SPOBRK | RUDDER | ELV-IB | ELV-OB | AIR-OB |
|------|----------|---------|--------|---------|----------|--------|----------|----------|--------|---------|---------|
| .597 | -3.991 | .02380 | .02380 | .02510 | -1.99530 | .00000 | 25.00000 | -.05570 | .02010 | .03000 | .00030 |
| .598 | -1.982 | .02520 | .02520 | .03060 | -.99350 | .00000 | 25.00000 | -1.13210 | .02500 | .03620 | -0.0470 |
| .598 | -.007 | .02660 | .02660 | .02040 | -.00600 | .00000 | 25.00000 | -1.13210 | .02500 | .01580 | -0.0470 |
| .598 | 1.984 | .02640 | .02640 | .02330 | .98970 | .00000 | 25.00000 | -1.2310 | .02500 | .02160 | -0.0470 |
| .598 | 3.975 | .02710 | .02710 | .02570 | 1.98580 | .00000 | 25.00000 | -1.14110 | .02500 | .02630 | -0.0470 |
| | GRADIENT | -.00004 | .00039 | -.00030 | .49974 | .00000 | -.00000 | -.00814 | .00049 | -.00110 | -.00050 |

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 BOFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

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REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 835/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH
 .899
 .899
 .900
 .900
 .900
 .899

AIL-OB
 -3.977
 -1.962
 .001
 1.979
 3.971
 GRADIENT

ALPHA
 5.06490
 5.05390
 5.04730
 5.05380
 5.06360
 -.00014

BETA
 .03090
 .03100
 .03100
 .03080
 .03050
 -.00009

ELEVON
 .03000
 .03340
 .02010
 .02330
 .02580
 -.00093

AILRON
 -1.98050
 -.97560
 .00450
 .99460
 1.99090
 .49975

BOFLAP
 .00970
 .00970
 .00970
 .00970
 .00970
 -.00000

SPOBRK
 25.00000
 25.00000
 25.00000
 25.00000
 25.00000
 -.00000

RUDDER
 -.12310
 -.12310
 -.12310
 -.12310
 -.11640
 .00068

ELV-1B
 .02530
 .03030
 .03030
 .03030
 .03030
 .00051

ELV-OB
 .03460
 .03650
 .01000
 .01630
 .02120
 -.00236

AIL-1B
 .01540
 .01050
 .01050
 .01050
 .01050
 -.00050

ALPHA = 5.000
 BETA = .000
 BOFLAP = 25.000
 RUDDER = 5.000
 ELEVON = .000
 SPOBRK = .000
 RN/L = .000

PARAMETRIC DATA

RUN NO. 829/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH
 1.200
 1.200
 1.201
 1.199
 1.201

AIL-OB
 -3.986
 -1.987
 -.012
 1.979
 3.971
 GRADIENT

ALPHA
 5.07740
 5.07700
 5.07650
 5.07660
 5.07710
 -.00005

BETA
 .03460
 .03390
 .03310
 .03140
 .03000
 -.00059

ELEVON
 .02240
 .02300
 .01330
 .02070
 .01810
 -.00055

AILRON
 -1.99300
 -.99610
 -.00820
 .98730
 1.98320
 .49975

BOFLAP
 .00970
 .00970
 .00970
 .00970
 .00970
 -.00000

SPOBRK
 25.00000
 25.00000
 25.00000
 25.00000
 25.00000
 .00000

RUDDER
 -.12310
 -.11640
 -.11640
 -.12310
 -.12310
 .00000

ELV-1B
 .01000
 .01500
 .01500
 .01500
 .01500
 .00050

ELV-OB
 .03480
 .03100
 .01150
 .02630
 .02120
 -.00160

AIL-1B
 .00010
 -.00480
 -.00480
 -.00480
 -.00480
 -.00049

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 854/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH
 .597
 .598
 .598
 .597
 .598

AIL-OB
 -4.008
 -2.004
 -.006
 1.998
 3.993
 GRADIENT

ALPHA
 5.02110
 5.02220
 5.02160
 5.02210
 5.02300
 .00018

BETA
 .02430
 .02610
 .02760
 .02820
 .02900
 .00057

ELEVON
 5.01370
 5.01730
 5.00840
 5.00500
 5.01570
 -.00040

AILRON
 -2.02060
 -1.01870
 -.01940
 .98500
 1.98010
 .50014

BOFLAP
 .00000
 .00000
 .00000
 .00000
 .00000
 .00000

SPOBRK
 25.00000
 25.00000
 25.00000
 25.00000
 25.00000
 .00000

RUDDER
 -.12310
 -.12310
 -.12310
 -.12310
 -.12310
 -.00000

ELV-1B
 5.01460
 5.01460
 5.01460
 5.00930
 5.01460
 -.00027

ELV-OB
 5.01290
 5.02000
 5.00220
 5.00140
 5.01680
 -.00054

AIL-1B
 -.03310
 -.03310
 -.03310
 -.02770
 -.03310
 .00027

ALPHA = 5.000
 BETA = .000
 BOFLAP = 25.000
 RUDDER = 5.000
 ELEVON = .000
 SPOBRK = .000
 RN/L = .000

PARAMETRIC DATA

(C2F0F6) (08 JUL 77)

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(C2F0F6) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 836/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIR-OB | ALPHA | BETA | ELEVON | AIRLON | BOFLAP | SPOBRK | RUDDER | ELV-1B | ELV-OB | AIR-1B |
|------|----------|---------|--------|---------|----------|--------|----------|---------|---------|---------|---------|
| .900 | -4.003 | 5.07930 | .02870 | 5.00600 | -2.01280 | .00970 | 25.00000 | -1.1640 | 5.00390 | 5.00800 | 5.00390 |
| .900 | -1.999 | 5.07650 | .03080 | 5.00920 | -1.01070 | .00970 | 25.00000 | -1.2310 | 5.00390 | 5.01460 | 5.00390 |
| .899 | -.001 | 5.07370 | .03210 | 5.00550 | -.01170 | .00970 | 25.00000 | -1.2310 | 5.00390 | 5.00700 | 5.00390 |
| .899 | 1.988 | 5.07200 | .03170 | 5.01020 | .98010 | .00970 | 25.00000 | -1.2310 | 5.00930 | 5.01110 | 5.00930 |
| .900 | 4.005 | 5.07670 | .03310 | 5.00460 | 1.99120 | .00970 | 25.00000 | -1.2310 | 5.00390 | 5.00530 | 5.00390 |
| | GRADIENT | -.00048 | .00049 | -.00009 | .49987 | .00000 | -.00000 | -.00067 | .00027 | -.00045 | .00027 |

RUN NO. 830/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIR-OB | ALPHA | BETA | ELEVON | AIRLON | BOFLAP | SPOBRK | RUDDER | ELV-1B | ELV-OB | AIR-1B |
|-------|----------|---------|--------|---------|----------|---------|----------|---------|---------|---------|---------|
| 1.200 | -4.017 | 5.09480 | .03120 | 4.99800 | -2.02560 | .00970 | 25.00000 | -1.1640 | 4.99230 | 5.00380 | 4.99230 |
| 1.201 | -2.004 | 5.09430 | .03210 | 5.00090 | -1.01910 | .00970 | 25.00000 | -1.1640 | 4.99230 | 5.00940 | 4.99230 |
| 1.201 | -.015 | 5.09370 | .03230 | 4.98970 | -.02210 | .00970 | 25.00000 | -1.1640 | 4.98690 | 5.00920 | 4.98690 |
| 1.201 | 1.993 | 5.09290 | .03190 | 5.00390 | .97920 | .00970 | 25.00000 | -1.2310 | 4.99230 | 5.01550 | 4.99230 |
| 1.200 | 3.999 | 5.09560 | .03210 | 5.00170 | 1.98250 | .00970 | 25.00000 | -1.1640 | 4.99230 | 5.01110 | 4.99230 |
| | GRADIENT | .00001 | .00008 | .00052 | .50000 | -.00000 | .00000 | -.00033 | .00000 | .00104 | .00000 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 855/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIR-OB | ALPHA | BETA | ELEVON | AIRLON | BOFLAP | SPOBRK | RUDDER | ELV-1B | ELV-OB | AIR-1B |
|------|----------|---------|--------|----------|----------|--------|----------|---------|----------|----------|----------|
| .599 | -3.998 | 4.95790 | .02480 | -4.93790 | -2.00170 | .00000 | 25.00000 | -1.0960 | -4.92520 | -4.95050 | -4.92520 |
| .598 | -2.024 | 4.95820 | .02600 | -4.94590 | -1.01160 | .00000 | 25.00000 | -1.2310 | -4.91960 | -4.97220 | -4.91960 |
| .598 | -.005 | 4.95890 | .02620 | -4.93370 | -.00240 | .00000 | 25.00000 | -1.2310 | -4.91960 | -4.94770 | -4.91960 |
| .598 | 2.010 | 4.95980 | .02630 | -4.93100 | 1.00500 | .00000 | 25.00000 | -1.2310 | -4.91960 | -4.94240 | -4.91960 |
| .598 | 4.005 | 4.95910 | .02640 | -4.93760 | 2.00320 | .00000 | 25.00000 | -1.3210 | -4.91960 | -4.95550 | -4.91960 |
| | GRADIENT | .00020 | .00017 | .00078 | .50027 | .00000 | -.00000 | -.00224 | .00056 | .00100 | .00056 |

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(C2F0F7) (08 JUL 77)

PARAMETRIC DATA

ALPHA = 5.000
 ELEVON = -5.000
 SPOBRK = 25.000
 RUDDER = 5.000

PARAMETRIC DATA

ALPHA = 5.000
 ELEVON = -5.000
 SPOBRK = 25.000
 RUDDER = 5.000

PARAMETRIC DATA

ALPHA = 5.000
 ELEVON = -5.000
 SPOBRK = 25.000
 RUDDER = 5.000

DATE 10 MAR 80

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(C2F0F7) (08 JUL 77)

REFERENCE DATA

| | | | | |
|-------|---|-----------|--------|------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP |
| LREF | = | 474.8100 | INCHES | YMRP |
| BREF | = | 936.6800 | INCHES | ZMRP |
| SCALE | = | .0500 | | |

| | |
|--------|---|
| ALPHA | 1 |
| ELEVON | 1 |
| SPOBRK | 1 |
| RN/L | 1 |

| | | |
|--------|---|------|
| BETA | = | .000 |
| BOFLAP | = | .000 |
| RUDDER | = | .000 |

| | | | | | | |
|---------|--------|--------|------|---------------------|--------|------|
| RUN NO. | 837/ 0 | RN/L = | 5.01 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|---------|--------|--------|------|---------------------|--------|------|

| MACH | AIR-OB | ALPHA | BETA | ELEVON | AILERON | BOFLAP | SPDBRK | RUDDER | ELV-1B | ELV-08 | AIR-IL |
|----------|--------|---------|--------|----------|----------|--------|----------|---------|----------|----------|---------|
| .899 | -4.009 | 4.98320 | .03080 | -4.93770 | -2.00150 | .00000 | 25.00000 | -.12310 | -4.92500 | -4.95030 | .00570 |
| .900 | -1.990 | 4.98560 | .03120 | -4.93680 | -.99200 | .00000 | 25.00000 | .12310 | -4.92500 | -4.94850 | .00570 |
| .901 | .005 | 4.98750 | .03100 | -4.93690 | .00010 | .00000 | 25.00000 | .12310 | -4.92520 | -4.94850 | -.00520 |
| .901 | 2.001 | 4.98930 | .03110 | -4.94380 | .99770 | .00000 | 25.00000 | -.12310 | -4.92520 | -4.96230 | -.00520 |
| .900 | 4.001 | 4.98590 | .03150 | -4.94290 | 1.99790 | .00970 | 25.00000 | .12310 | -4.92520 | -4.96060 | -.00520 |
| GRADIENT | .00046 | .00007 | .00007 | -.00087 | .49918 | .00097 | -.00000 | .00000 | -.00003 | -.00172 | -.00163 |

RUN NO. 831 / 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00 / 5.00

| MACH | AIR-OB | ALPHA | BETA | ELEVON | AIRLON | BOFLAP | SPDBRK | RUDDER | ELV-1B | ELV-OB | AIR-1B |
|----------|---------|---------|---------|----------|----------|---------|----------|---------|----------|----------|---------|
| 1.201 | -3.998 | 5.03840 | .03570 | -4.93800 | -1.99640 | .00970 | 25.00000 | -1.1640 | -4.93600 | -4.94010 | .00560 |
| 1.200 | -1.999 | 5.03930 | .03450 | -4.94700 | -.99680 | .00970 | 25.00000 | -.12310 | -4.93600 | -4.95810 | .00560 |
| 1.200 | -.005 | 5.03920 | .03290 | -4.94180 | .00030 | .00970 | 25.00000 | -1.1640 | -4.93600 | -4.94700 | .00560 |
| 1.201 | 1.984 | 5.03901 | .03150 | -4.94370 | .99210 | .00970 | 25.00000 | -.12310 | -4.94150 | -4.94580 | .00010 |
| 1.200 | 4.011 | 5.03713 | .03000 | -4.94330 | 2.00290 | .00970 | 25.00000 | -1.1640 | -4.93610 | -4.95050 | -.00540 |
| GRADIENT | -.00015 | -.00072 | -.00036 | -.00000 | .49931 | -.00000 | -.00000 | -.00000 | -.00028 | -.00043 | -.00138 |

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AMES 118-1-11 OAI45A 01

(C2F0F8) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA =
 AILRON =
 SPOBRK =
 RN/L =
 18.700 ELEVON = .000
 25.000 BOFLAP = .000
 3.000 RUDDER = .000

RUN NO. 320/ 0 RN/L = 2.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | ELV-OB | AIL-1B | AIL-OB |
|------|----------|----------|--------|---------|--------|----------|--------|--------|--------|---------|---------|
| .399 | -3.984 | 18.60700 | .01680 | .00190 | .01000 | 25.00000 | .00000 | .02500 | .00850 | -.00470 | .00850 |
| .399 | -2.924 | 18.56300 | .01430 | .00440 | .01000 | 25.00000 | .00000 | .02010 | .00850 | .00030 | .00850 |
| .400 | -1.851 | 18.57100 | .01430 | .00440 | .01000 | 25.00000 | .00000 | .02010 | .00850 | .00030 | .00850 |
| .401 | -1.328 | 18.56700 | .01430 | .00440 | .01000 | 25.00000 | .00000 | .02010 | .00850 | .00030 | .00850 |
| .400 | -.807 | 18.56000 | .01720 | .00150 | .01000 | 25.00000 | .00000 | .02010 | .01420 | .00030 | .00280 |
| .400 | -.284 | 18.55400 | .01930 | .00370 | .01000 | 25.00000 | .00000 | .02010 | .01850 | .00030 | .00700 |
| .400 | .238 | 18.54900 | .01470 | .00400 | .01000 | 25.00000 | .00000 | .02010 | .01420 | .00520 | .00280 |
| .400 | .743 | 18.53900 | .01470 | .00400 | .01000 | 25.00000 | .00000 | .02010 | .01420 | .00520 | .00280 |
| .400 | 1.248 | 18.52900 | .01930 | .00370 | .01000 | 25.00000 | .00000 | .02010 | .01850 | .00030 | .00700 |
| .400 | 1.745 | 18.51500 | .01960 | -.00090 | .01000 | 25.00000 | .00000 | .02500 | .01420 | -.00470 | .00280 |
| .400 | 2.262 | 18.50700 | .02210 | -.00340 | .01000 | 25.00000 | .00000 | .03000 | .01420 | -.00960 | .00280 |
| .401 | 3.289 | 18.49500 | .01960 | -.00090 | .01000 | 25.00000 | .00000 | .02500 | .01420 | -.00470 | .00280 |
| .400 | 4.329 | 18.48000 | .02180 | .00120 | .01000 | 25.00000 | .00000 | .02500 | .01850 | -.00470 | .00700 |
| .400 | GRADIENT | -.01420 | .00088 | -.00059 | .00000 | .00000 | .00000 | .00057 | .00118 | -.00058 | -.00061 |

RUN NO. 321/ 0 RN/L = 2.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | ELV-OB | AIL-1B | AIL-OB |
|------|----------|----------|--------|---------|---------|----------|--------|--------|--------|---------|---------|
| .594 | -3.991 | 18.80900 | .01390 | .00400 | .01000 | 25.00000 | .00000 | .01500 | .01280 | -.00480 | .01280 |
| .594 | -2.909 | 18.77700 | .01670 | .00110 | .01000 | 25.00000 | .00000 | .01500 | .01850 | -.00480 | .00700 |
| .595 | -1.859 | 18.77200 | .01670 | .00110 | .01000 | 25.00000 | .00000 | .01500 | .01850 | -.00480 | .00700 |
| .599 | -1.336 | 18.77000 | .01670 | .00110 | .01000 | 25.00000 | .00000 | .01500 | .01850 | -.00480 | .00700 |
| .601 | -.813 | 18.76800 | .01670 | .00110 | .01000 | 25.00000 | .00000 | .01500 | .01850 | -.00480 | .00700 |
| .598 | -.290 | 18.75800 | .01670 | .00110 | .01000 | 25.00000 | .00000 | .01500 | .01850 | -.00480 | .00700 |
| .600 | .234 | 18.75500 | .01670 | .00110 | .01000 | 25.00000 | .00000 | .01500 | .01850 | -.00480 | .00700 |
| .598 | .741 | 18.74800 | .01670 | .00110 | .01000 | 25.00000 | .00000 | .01500 | .01850 | -.00480 | .00700 |
| .599 | 1.247 | 18.73800 | .01670 | .00110 | .01000 | 25.00000 | .00000 | .01500 | .01850 | -.00480 | .00700 |
| .600 | 1.747 | 18.72300 | .01920 | -.00140 | .01000 | 25.00000 | .00000 | .02000 | .01850 | -.00980 | .00700 |
| .599 | 2.263 | 18.71400 | .01920 | -.00140 | .01000 | 25.00000 | .00000 | .02000 | .01850 | -.00980 | .00700 |
| .599 | 3.294 | 18.70400 | .01920 | -.00140 | .01000 | 25.00000 | .00000 | .02000 | .01850 | -.00980 | .00700 |
| .600 | 4.337 | 18.68600 | .01920 | -.00140 | .01000 | 25.00000 | .00000 | .02000 | .01850 | -.00980 | .00700 |
| .600 | GRADIENT | -.01383 | .00056 | -.00056 | -.00000 | -.00000 | .00000 | .00077 | .00034 | -.00077 | -.00035 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1236

AMES 118-1-11 OAI45A 01

(C2F0F8) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 18.700 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 3.000

RUN NO. 319/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | ELV-OB | AIL-1B | AIL-OB |
|------|----------|----------|--------|---------|--------|----------|---------|--------|--------|---------|--------|
| .799 | -4.008 | 18.78900 | .01710 | -.00350 | .01000 | 25.00000 | .04260 | .02000 | .01420 | -.00980 | .00280 |
| .797 | -2.926 | 18.80300 | .01710 | -.00350 | .01000 | 25.00000 | .02560 | .02000 | .01420 | -.00980 | .00280 |
| .797 | -1.876 | 18.79500 | .01460 | -.00100 | .01000 | 25.00000 | .01700 | .01500 | .01420 | -.00480 | .00280 |
| .798 | -1.351 | 18.79100 | .01460 | -.00100 | .01000 | 25.00000 | .02560 | .01500 | .01420 | -.00480 | .00280 |
| .800 | -.827 | 18.78700 | .01460 | -.00100 | .01000 | 25.00000 | .00850 | .01500 | .01420 | -.00480 | .00280 |
| .799 | -.301 | 18.78300 | .01460 | -.00100 | .01000 | 25.00000 | .00000 | .01500 | .01420 | -.00480 | .00280 |
| .779 | .178 | 19.66100 | .01460 | -.00100 | .01000 | 25.00000 | -.02510 | .01500 | .01420 | -.00480 | .00280 |
| .799 | .734 | 18.78300 | .01460 | -.00100 | .01000 | 25.00000 | .00000 | .01500 | .01420 | -.00480 | .00280 |
| .793 | 1.248 | 18.77300 | .01710 | -.00350 | .01000 | 25.00000 | -.00840 | .02000 | .01420 | -.00980 | .00280 |
| .799 | 1.748 | 18.76100 | .01960 | -.00090 | .01000 | 25.00000 | -.01670 | .02500 | .01420 | -.00470 | .00280 |
| .799 | 2.266 | 18.75400 | .01710 | -.00350 | .01000 | 25.00000 | -.01670 | .02000 | .01420 | -.00980 | .00280 |
| .797 | 3.306 | 18.74900 | .01710 | -.00350 | .01000 | 25.00000 | -.01670 | .02000 | .01420 | -.00980 | .00280 |
| .799 | 4.350 | 18.74200 | .01710 | -.00350 | .01000 | 25.00000 | -.03350 | .02000 | .01420 | -.00980 | .00280 |
| | GRADIENT | -.00746 | .00022 | -.00011 | .00000 | .00000 | -.00856 | .00044 | .00000 | -.00022 | .00000 |

DATE 10 MAR 80

OAI145 TABULATED FORCE DATA

PAGE 1237

AMES 118-1-11 OAI145A 01

(C2F0F9) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000
 AILRON = .000
 SPOBRK = .000
 RN/L = .000
 ELEVON = 19.700
 BDFLAP = .000
 RUDDER = 25.000
 RUDDER = 5.000

RUN NO. 334/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|----------|--------|---------|---------|----------|---------|--------|--------|---------|---------|
| .397 | -3.976 | 18.64100 | .02220 | .00080 | .01000 | 25.00000 | .04260 | .02010 | .02420 | .00030 | .00130 |
| .397 | -2.900 | 18.65200 | .02220 | .00080 | .01000 | 25.00000 | .04260 | .02010 | .02420 | .00030 | .00130 |
| .397 | -1.854 | 18.64700 | .02220 | .00080 | .01000 | 25.00000 | .04260 | .02010 | .02420 | .00030 | .00130 |
| .397 | -1.330 | 18.64200 | .02220 | .00080 | .01000 | 25.00000 | .04260 | .02010 | .02420 | .00030 | .00130 |
| .397 | -1.810 | 18.63800 | .02500 | .00210 | .01000 | 25.00000 | .03410 | .02010 | .03000 | .00030 | .00450 |
| .397 | -.286 | 18.63100 | .02220 | .00080 | .01000 | 25.00000 | .03410 | .02010 | .02420 | .00030 | .00130 |
| .397 | .225 | 18.62800 | .02220 | .00080 | .01000 | 25.00000 | .03410 | .02010 | .02420 | .00030 | .00130 |
| .398 | .743 | 18.62100 | .02500 | .00210 | .01000 | 25.00000 | .03410 | .02010 | .03000 | .00030 | .00450 |
| .397 | 1.254 | 18.60900 | .02500 | .00210 | .01000 | 25.00000 | .04260 | .02010 | .03000 | .00030 | .00450 |
| .398 | 1.753 | 18.59300 | .02500 | .00210 | .01000 | 25.00000 | .04260 | .02010 | .03000 | .00030 | .00450 |
| .398 | 2.270 | 18.58400 | .02500 | .00210 | .01000 | 25.00000 | .03410 | .02010 | .03000 | .00030 | .00450 |
| .398 | 3.301 | 18.57200 | .02500 | .00210 | .01000 | 25.00000 | .03410 | .02010 | .03000 | .00030 | .00450 |
| .397 | 4.340 | 18.55800 | .02220 | .00080 | .01000 | 25.00000 | .02560 | .02010 | .02420 | .00030 | .00130 |
| | GRADIENT | -.01193 | .00029 | -.00030 | -.00000 | .00000 | -.00139 | .00000 | .00060 | -.00000 | -.00060 |

RUN NO. 403/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|----------|--------|---------|--------|----------|---------|---------|--------|---------|---------|
| .598 | -4.020 | 19.03000 | .01540 | .00180 | .00970 | 25.00000 | -.08270 | .00510 | .02570 | .00510 | -.00870 |
| .600 | -2.972 | 18.71000 | .01580 | .00140 | .00970 | 25.00000 | -.08270 | .00510 | .02150 | .01020 | -.01300 |
| .600 | -1.942 | 18.71000 | .01540 | .00180 | .00970 | 25.00000 | -.08940 | .00510 | .02570 | .00510 | -.00870 |
| .602 | -1.423 | 18.71600 | .01540 | .00180 | .01940 | 25.00000 | -.08940 | .00510 | .02570 | .00510 | -.00870 |
| .601 | -.908 | 18.71400 | .01540 | .00180 | .00970 | 25.00000 | -.08940 | .00510 | .02570 | .00510 | -.00870 |
| .601 | -.387 | 18.71400 | .01750 | .00030 | .00970 | 25.00000 | -.08270 | .00510 | .03000 | .00510 | -.00450 |
| .600 | .118 | 19.06300 | .01540 | .00180 | .00970 | 25.00000 | -.09620 | .00510 | .02570 | .00510 | -.00870 |
| .600 | .646 | 18.71300 | .01790 | .00430 | .01940 | 25.00000 | -.06920 | .01000 | .02570 | .00010 | -.00870 |
| .601 | 1.166 | 18.70300 | .01750 | .00030 | .00970 | 25.00000 | -.08270 | .00510 | .03000 | .00510 | -.00450 |
| .601 | 1.672 | 18.69700 | .01540 | .00180 | .01940 | 25.00000 | -.07590 | .00510 | .02570 | .00510 | -.00870 |
| .601 | 2.193 | 18.69200 | .01290 | .00440 | .01940 | 25.00000 | -.07590 | .00000 | .02570 | .00000 | -.00870 |
| .601 | 3.232 | 18.67500 | .01530 | .00680 | .00970 | 25.00000 | -.07590 | .00500 | .02570 | -.00500 | -.00870 |
| .601 | 4.269 | 18.65900 | .01790 | .00430 | .00970 | 25.00000 | -.07590 | .01000 | .02570 | .00010 | -.00870 |
| | GRADIENT | -.02473 | .00009 | -.00047 | .00036 | -.00000 | .00161 | -.00005 | .00022 | -.00116 | .00022 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1238

AMES 118-1-11 OAI45A 01

(C2F0F9) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

ALPHA =
 AILRON =
 SPDBRK =
 RN/L =

PARAMETRIC DATA
 18.700 ELEVON = .000
 .000 BDFLAP = .000
 25.000 RUDDER = .000
 5.000

RUN NO. 407/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-08 | AIL-1B | AIL-08 |
|------|----------|----------|--------|---------|---------|----------|---------|--------|---------|---------|
| .800 | -4.067 | 18.71900 | .01640 | -.01640 | .00970 | 25.00000 | -.04900 | .02300 | -.00990 | -.02300 |
| .798 | -3.011 | 18.73800 | .01640 | -.01640 | .00000 | 25.00000 | -.06240 | .02300 | -.00990 | -.02300 |
| .800 | -1.972 | 18.73600 | .01640 | -.01640 | .00000 | 25.00000 | -.06920 | .02300 | -.00990 | -.02300 |
| .800 | -1.450 | 18.73400 | .01640 | -.01640 | .00000 | 25.00000 | -.07590 | .02300 | -.00990 | -.02300 |
| .799 | -.929 | 18.73500 | .01640 | -.01640 | .00000 | 25.00000 | -.07590 | .02300 | -.00990 | -.02300 |
| .800 | -.400 | 18.73500 | .01640 | -.01640 | .00000 | 25.00000 | -.06240 | .02300 | -.00990 | -.02300 |
| .799 | .099 | 18.73000 | .01640 | -.01640 | .00970 | 25.00000 | -.07590 | .03150 | -.00990 | -.01450 |
| .799 | .639 | 18.73400 | .02070 | -.01220 | .00000 | 25.00000 | -.08270 | .03150 | -.01490 | -.01450 |
| .799 | 1.161 | 18.73000 | .02320 | -.01470 | .00000 | 25.00000 | -.08270 | .03570 | -.00990 | -.01020 |
| .801 | 1.669 | 18.72100 | .02070 | -.01220 | .00000 | 25.00000 | -.08940 | .04000 | -.01490 | -.00600 |
| .799 | 2.197 | 18.72200 | .02530 | -.01250 | .00000 | 25.00000 | -.08940 | .03570 | -.01490 | -.01020 |
| .800 | 3.246 | 18.71400 | .02740 | -.01040 | .00000 | 25.00000 | -.09620 | .00225 | -.00074 | .00225 |
| .799 | 4.294 | 18.70100 | .02530 | -.01250 | .00000 | 25.00000 | -.00483 | | | |
| | GRADIENT | -.00290 | .00150 | .00076 | -.00057 | .00000 | | | | |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(C2F000) (16 JUL 77)

AMES 118-1-11 OAI45A 01

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

ALPHA =
 AILRON =
 SPOBRK =
 RN/L =

18.700 ELEVON = .000
 .000 BOFLAP = .000
 25.000 RUDDER = .000
 9.000

RUN NO. 335/ 0 RN/L = 6.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-OB | AIL-OB | AIL-IB | AIL-OB |
|------|--------|----------|---------|---------|--------|----------|---------|---------|--------|--------|---------|
| .597 | -4.024 | 18.80600 | .02720 | .00000 | .01000 | 25.00000 | .35790 | .03420 | .00030 | .00030 | -.00020 |
| .597 | -2.985 | 18.80800 | .02500 | -.00210 | .01000 | 25.00000 | .05970 | .03000 | .00030 | .00030 | -.00450 |
| .597 | -1.943 | 18.80400 | .02500 | -.00210 | .01000 | 25.00000 | -.12550 | .03000 | .00030 | .00030 | -.00450 |
| .598 | -1.420 | 18.81200 | .02500 | -.00210 | .01000 | 25.00000 | .00000 | .03000 | .00030 | .00030 | -.00450 |
| .597 | -.899 | 18.80300 | .02500 | -.00210 | .01000 | 25.00000 | -.01670 | .03000 | .00030 | .00030 | -.00450 |
| .597 | -.373 | 18.80000 | .02500 | -.00210 | .01000 | 25.00000 | .00000 | .03420 | .00030 | .00030 | -.00020 |
| .596 | .164 | 19.42500 | .02720 | .00000 | .01000 | 25.00000 | .13640 | .03000 | .00030 | .00030 | -.00450 |
| .597 | .675 | 18.79100 | .02500 | -.00210 | .01000 | 25.00000 | -.07530 | .03000 | .00030 | .00030 | -.00450 |
| .597 | 1.197 | 18.77900 | .02500 | -.00210 | .01000 | 25.00000 | -.09200 | .03000 | .00030 | .00030 | -.00450 |
| .597 | 1.709 | 18.76700 | .02500 | -.00210 | .01000 | 25.00000 | -.14220 | .03000 | .00030 | .00030 | -.00450 |
| .597 | 2.238 | 18.76000 | .02500 | -.00210 | .01000 | 25.00000 | -.07530 | .03000 | .00030 | .00030 | -.00450 |
| .598 | 3.284 | 18.74200 | .02500 | -.00210 | .01000 | 25.00000 | .00000 | .03000 | .00030 | .00030 | -.00450 |
| .597 | 4.331 | 18.72500 | .02500 | -.00210 | .01000 | 25.00000 | -.08370 | .03000 | .00030 | .00030 | -.00450 |
| .597 | | | -.00013 | -.00012 | .00000 | .00000 | -.03191 | -.00025 | .00000 | .00000 | -.00025 |

GRADIENT

RUN NO. 340/ 0 RN/L = 7.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-OB | AIL-OB | AIL-IB | AIL-OB |
|------|--------|----------|--------|---------|--------|----------|---------|--------|---------|---------|---------|
| .799 | -4.156 | 18.79500 | .02550 | -.00170 | .02000 | 25.00000 | -.09200 | .02570 | .00540 | .00540 | -.00870 |
| .798 | -3.091 | 18.82300 | .02580 | -.00710 | .02000 | 25.00000 | -.35970 | .03150 | .00030 | .00030 | -.01450 |
| .798 | -2.033 | 18.82800 | .02580 | -.00710 | .02000 | 25.00000 | .03410 | .03150 | .00030 | .00030 | -.01450 |
| .799 | -1.500 | 18.83200 | .02580 | -.00710 | .02000 | 25.00000 | .00000 | .03150 | .00030 | .00030 | -.01450 |
| .798 | -.963 | 18.82000 | .02580 | -.00710 | .02000 | 25.00000 | -.07530 | .03150 | .00030 | .00030 | -.01450 |
| .799 | -.427 | 18.81900 | .02580 | -.00710 | .02000 | 25.00000 | -.08370 | .03150 | .00030 | .00030 | -.01450 |
| .800 | .105 | 18.81200 | .02580 | -.00710 | .02000 | 25.00000 | -.09200 | .03150 | .00030 | .00030 | -.01450 |
| .800 | .639 | 18.80900 | .02580 | -.00710 | .02000 | 25.00000 | .02510 | .03150 | .00030 | .00030 | -.01450 |
| .799 | 1.166 | 18.79600 | .02580 | -.00710 | .02000 | 25.00000 | .00000 | .03150 | .00030 | .00030 | -.01450 |
| .799 | 1.688 | 18.78200 | .02580 | -.00710 | .02000 | 25.00000 | .05970 | .03150 | .00030 | .00030 | -.01450 |
| .799 | 2.226 | 18.78400 | .02580 | -.00710 | .03000 | 25.00000 | -.19600 | .03150 | .00030 | .00030 | -.01450 |
| .799 | 3.297 | 18.78900 | .02870 | -.01000 | .02000 | 25.00000 | -.10040 | .03720 | .00030 | .00030 | -.02020 |
| .799 | 4.361 | 18.78400 | .02870 | -.01000 | .03000 | 25.00000 | .04260 | .03720 | .00030 | .00030 | -.02020 |
| .798 | | | .00031 | -.00061 | .00087 | .00000 | .02646 | .00091 | -.00029 | -.00029 | -.00091 |

GRADIENT

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1240

AMES 118-1-11 OAI45A 01

(CZF001) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 3.000

RUN NO. 858/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-08 | AIL-08 | ELV-1B | AIL-1B | AIL-0B |
|------|----------|---------|---------|---------|--------|----------|---------|--------|---------|--------|---------|--------|
| .400 | -4.999 | 2.01420 | .01460 | -.00020 | .00000 | 25.00000 | -.12310 | .00430 | -.00470 | .02500 | -.00470 | .00430 |
| .498 | -.037 | 2.08210 | .01460 | -.00020 | .00000 | 25.00000 | -.11640 | .00430 | -.00470 | .02500 | -.00470 | .00430 |
| .498 | 2.518 | 2.14930 | .01460 | -.00020 | .00000 | 25.00000 | -.12310 | .00430 | -.00470 | .02500 | -.00470 | .00430 |
| .498 | 5.160 | 2.13610 | .01460 | -.00020 | .00000 | 25.00000 | -.11640 | .00430 | -.00470 | .02500 | -.00470 | .00430 |
| .499 | 8.197 | 2.12730 | .01460 | -.00020 | .00000 | 25.00000 | -.12310 | .00430 | -.00470 | .02500 | -.00470 | .00430 |
| .499 | 10.211 | 2.13230 | .01460 | -.00020 | .00000 | 25.00000 | -.11640 | .00430 | -.00470 | .02500 | -.00470 | .00430 |
| .499 | 12.195 | 2.14510 | .01460 | -.00020 | .00000 | 25.00000 | -.12310 | .00430 | -.00470 | .02500 | -.00470 | .00430 |
| .499 | 15.219 | 2.18130 | .01210 | -.00280 | .00000 | 25.00000 | -.10960 | .00430 | -.00980 | .02000 | -.00980 | .00430 |
| .499 | 17.204 | 2.19540 | .01960 | -.00100 | .00000 | 25.00000 | -.08270 | .01430 | -.00470 | .02500 | -.00470 | .00270 |
| .497 | 19.242 | 2.23190 | .00970 | .00470 | .00000 | 25.00000 | -.08270 | .00430 | -.00520 | .01510 | -.00520 | .00430 |
| | GRADIENT | .01739 | -.00000 | .00000 | .00000 | .00000 | .00018 | .00000 | .00000 | .00000 | .00000 | .00000 |

RUN NO. 859/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-08 | AIL-08 | ELV-1B | AIL-1B | AIL-0B |
|------|----------|---------|--------|---------|--------|----------|---------|--------|---------|--------|---------|--------|
| .598 | -5.021 | 2.03220 | .00760 | .00260 | .00000 | 25.00000 | -.11640 | .00000 | -.00520 | .01510 | -.00520 | .00000 |
| .599 | -.038 | 2.09250 | .00250 | .00250 | .00000 | 25.00000 | -.10290 | .00000 | .00510 | .00510 | .00510 | .00000 |
| .598 | 2.516 | 2.15490 | .00250 | .00250 | .00000 | 25.00000 | -.08940 | .00000 | .00510 | .00510 | .00510 | .00000 |
| .596 | 5.140 | 2.15560 | .00250 | .00250 | .00000 | 25.00000 | -.08940 | .00000 | .00510 | .00510 | .00510 | .00000 |
| .595 | 8.196 | 2.14070 | .00750 | -.00240 | .00000 | 25.00000 | -.08270 | .00000 | -.00480 | .01500 | -.00480 | .00000 |
| .595 | 10.185 | 2.14880 | .00750 | -.00240 | .00000 | 25.00000 | -.08940 | .00000 | -.00510 | .01500 | -.00480 | .00000 |
| .595 | 12.238 | 2.17090 | .00500 | -.00490 | .00000 | 25.00000 | -.08940 | .00000 | -.00510 | .01500 | -.00480 | .00000 |
| .595 | 15.222 | 2.21160 | .00750 | -.00240 | .00000 | 25.00000 | -.08270 | .00000 | -.00480 | .01500 | -.00480 | .00000 |
| .597 | 17.248 | 2.20800 | .00750 | -.00240 | .00000 | 25.00000 | -.08270 | .00000 | -.00480 | .01500 | -.00480 | .00000 |
| .597 | 19.165 | 2.23300 | .00750 | -.00240 | .00000 | 25.00000 | -.08940 | .00000 | -.00480 | .01500 | -.00480 | .00000 |
| | GRADIENT | .02443 | .00000 | .00000 | .00000 | .00000 | .00529 | .00000 | .00000 | .00000 | .00000 | .00000 |

RUN NO. 860/ 0 RN/L = 2.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-08 | AIL-08 | ELV-1B | AIL-1B | AIL-0B |
|------|----------|---------|--------|---------|--------|----------|---------|--------|---------|--------|---------|--------|
| .801 | -4.994 | 2.04130 | .00750 | -.00240 | .00000 | 25.00000 | -.08940 | .00000 | -.00480 | .01500 | -.00480 | .00000 |
| .801 | -.047 | 2.09900 | .00750 | -.00240 | .00000 | 25.00000 | -.09620 | .00000 | -.00480 | .01500 | -.00480 | .00000 |
| .800 | 2.516 | 2.16330 | .01180 | .00180 | .00000 | 25.00000 | -.08940 | .00000 | .00510 | .00510 | .00510 | .00000 |
| .797 | 5.146 | 2.17100 | .00920 | -.00070 | .00000 | 25.00000 | -.08270 | .00850 | -.00990 | .00990 | -.00990 | .00850 |
| .796 | 8.222 | 2.15940 | .00920 | -.00070 | .00000 | 25.00000 | -.06240 | .00850 | -.00990 | .00990 | -.00990 | .00850 |
| .796 | 10.255 | 2.17360 | .00910 | .00450 | .00000 | 25.00000 | -.04220 | .00850 | -.00990 | .01390 | -.00990 | .00850 |
| .799 | 12.248 | 2.19260 | .01180 | .00180 | .00000 | 25.00000 | -.02870 | .00850 | -.00480 | .01500 | -.00480 | .00850 |
| .799 | 15.268 | 2.23350 | .01180 | .00180 | .00000 | 25.00000 | -.01170 | .00850 | -.00480 | .01500 | -.00480 | .00850 |
| .796 | 17.242 | 2.23100 | .00920 | -.00070 | .00000 | 25.00000 | .00990 | .00850 | -.00990 | .00990 | -.00990 | .00850 |
| .796 | 19.174 | 2.27230 | .01180 | .00180 | .03880 | 25.00000 | .01170 | .00850 | -.00480 | .01500 | -.00480 | .00850 |
| | GRADIENT | .01563 | .00050 | .00048 | .00000 | .00000 | -.00019 | .00098 | -.00000 | .00000 | -.00000 | .00098 |

DATE 10 MAR 80

OAI145 TABULATED FORCE DATA

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AMES 118-1-11 OAI145A 01

(C2F002) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 863/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|--------|---------|--------|----------|---------|--------|--------|---------|---------|
| .397 | -5.006 | 2.01750 | .01000 | -.00570 | .00000 | 25.00000 | -.08270 | .00990 | .01000 | -.00990 | -.00150 |
| .397 | -.026 | 2.09840 | .01000 | -.00570 | .00000 | 25.00000 | -.10290 | .00990 | .01000 | -.00990 | -.00150 |
| .397 | 2.516 | 2.15980 | .01000 | -.00570 | .00000 | 25.00000 | -.10290 | .00990 | .01000 | -.00990 | -.00150 |
| .396 | 5.151 | 2.17110 | .01000 | -.00570 | .00000 | 25.00000 | -.08940 | .00990 | .01000 | -.00990 | -.00150 |
| .396 | 8.174 | 2.14820 | .01210 | -.00360 | .00000 | 25.00000 | -.04900 | .00990 | .01430 | -.00990 | .00270 |
| .395 | 10.233 | 2.16050 | .01210 | -.00360 | .00000 | 25.00000 | -.04220 | .00990 | .01430 | -.00990 | .00270 |
| .395 | 12.244 | 2.18060 | .01210 | -.00360 | .00000 | 25.00000 | -.03550 | .00990 | .01430 | -.00990 | .00270 |
| .397 | 15.264 | 2.22220 | .01210 | -.00360 | .00000 | 25.00000 | -.01520 | .00990 | .01430 | -.00990 | .00270 |
| .397 | 17.227 | 2.21410 | .01210 | -.00360 | .00000 | 25.00000 | -.02200 | .00990 | .01430 | -.00990 | .00270 |
| .397 | 19.164 | 2.25060 | .01210 | -.00360 | .00000 | 25.00000 | -.02200 | .00990 | .01430 | -.00990 | .00270 |
| .397 | GRADIENT | .02415 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.00000 | .00000 |

AMES 118-1-11 OAI145A 01

(C2F003) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 6.900

RUN NO. 862/ 0 RN/L = 6.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|---------|---------|--------|----------|---------|---------|--------|---------|---------|
| .596 | -5.066 | 2.07300 | .01500 | -.00650 | .00970 | 25.00000 | -.06240 | .00990 | .02000 | -.00990 | -.00300 |
| .597 | -.030 | 2.11940 | .01210 | -.00360 | .00970 | 25.00000 | -.03550 | .00990 | .01430 | -.00990 | .00270 |
| .597 | 2.526 | 2.18490 | .01210 | -.00360 | .00970 | 25.00000 | -.04220 | .00990 | .01430 | -.00990 | .00270 |
| .596 | 5.151 | 2.22610 | .01210 | -.00360 | .00970 | 25.00000 | -.02200 | .00990 | .01430 | -.00990 | .00270 |
| .598 | 8.286 | 2.23860 | .01500 | -.00650 | .00970 | 25.00000 | -.00850 | .00990 | .02000 | -.00990 | -.00300 |
| .597 | 10.341 | 2.24180 | .01210 | -.00360 | .00970 | 25.00000 | -.01520 | .00990 | .01430 | -.00990 | .00270 |
| .597 | 12.347 | 2.24880 | .01210 | -.00360 | .00970 | 25.00000 | -.00180 | .00990 | .01430 | -.00990 | .00270 |
| .596 | 15.384 | 2.28270 | .01210 | -.00360 | .01940 | 25.00000 | -.00180 | .00990 | .01430 | -.00990 | .00270 |
| .596 | 17.323 | 2.28560 | .01500 | -.00650 | .01940 | 25.00000 | -.00180 | .00990 | .02000 | -.00990 | -.00300 |
| .596 | 19.267 | 2.29080 | .01500 | -.00650 | .01940 | 25.00000 | .00500 | .00990 | .02000 | -.00990 | -.00300 |
| .596 | GRADIENT | .02562 | -.00000 | .00000 | .00000 | -.00000 | -.00262 | -.00000 | .00000 | .00000 | -.00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(C2F0G4) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 861/ 0 RN/L = 7.99 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

BETA =
 AILRON =
 SPOBRK =
 RN/L =

2.000 ELEVON = .000
 .000 BOFLAP = .000
 25.000 RUDDER = .000
 7.900

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | AIL-1B | AIL-0B |
|------|----------|---------|---------|---------|--------|----------|---------|--------|---------|---------|
| .797 | -5.094 | 2.10930 | .01960 | -.00180 | .00970 | 25.00000 | -.09620 | .01500 | -.00480 | .00120 |
| .799 | -.042 | 2.15560 | .01960 | -.00180 | .01940 | 25.00000 | -.01520 | .01500 | -.00480 | .00120 |
| .798 | 2.537 | 2.20340 | .01750 | -.00390 | .01940 | 25.00000 | -.00180 | .01500 | -.00480 | -.00300 |
| .799 | 5.147 | 2.27300 | .01750 | -.00390 | .01940 | 25.00000 | .01170 | .01500 | -.00480 | -.00300 |
| .797 | 8.350 | 2.32090 | .01750 | -.00390 | .01940 | 25.00000 | -.12310 | .01500 | -.00480 | -.00300 |
| .800 | 10.392 | 2.30950 | .01750 | -.00390 | .01940 | 25.00000 | -.11640 | .01500 | -.00480 | -.00300 |
| .797 | 12.410 | 2.31280 | .01500 | -.00650 | .01940 | 25.00000 | -.10960 | .00990 | -.00990 | -.00300 |
| .798 | 15.416 | 2.32640 | .01500 | -.00650 | .01940 | 25.00000 | -.17690 | .00990 | -.00990 | -.00300 |
| .799 | 17.406 | 2.34650 | .01740 | -.00890 | .01940 | 25.00000 | -.25770 | .01490 | -.01490 | -.00300 |
| .799 | 19.369 | 2.36940 | .01500 | -.00650 | .01940 | 25.00000 | -.32940 | .00990 | -.00990 | -.00300 |
| | GRADIENT | .01853 | -.00081 | -.00081 | .00000 | .00000 | .00520 | .00000 | .00000 | -.00163 |

AMES 118-1-11 OAI45A 01 (-MPS NOZ)

(C2F0G5) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA =
 AILRON =
 SPOBRK =
 RN/L =

.000 ELEVON = .000
 .000 BOFLAP = .000
 25.000 RUDDER = .000
 5.000

RUN NO. 918/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | AIL-1B | AIL-0B |
|------|--------|---------|--------|---------|---------|----------|---------|--------|---------|--------|
| .597 | -5.206 | -.01870 | .01670 | -.00310 | .00970 | 25.00000 | -.12310 | .02490 | -.01470 | .00850 |
| .597 | -.210 | .01020 | .01670 | -.00310 | .00970 | 25.00000 | -.13210 | .02490 | -.01470 | .00850 |
| .598 | 2.326 | .01470 | .01670 | -.00310 | .00970 | 25.00000 | -.13210 | .02490 | -.01470 | .00850 |
| .598 | 4.802 | .05050 | .01670 | -.00310 | .00970 | 25.00000 | -.13210 | .02490 | -.01470 | .00430 |
| .597 | 7.882 | .03910 | .01460 | -.00520 | .00970 | 25.00000 | -.12310 | .02490 | -.01470 | .00430 |
| .598 | 9.946 | .04160 | .01460 | -.00520 | .00970 | 25.00000 | -.12310 | .02490 | -.01470 | .00430 |
| .598 | 11.972 | .03730 | .01460 | -.00520 | .00970 | 25.00000 | -.12310 | .02490 | -.01470 | .00850 |
| .598 | 15.007 | .04730 | .01670 | -.00310 | .00970 | 25.00000 | -.12310 | .02490 | -.01470 | .00850 |
| .597 | 16.975 | .07490 | .01670 | -.00310 | .00970 | 25.00000 | -.12310 | .02490 | -.01470 | .00850 |
| .597 | 18.950 | .11700 | .01670 | -.00310 | .00970 | 25.00000 | -.12310 | .02490 | -.01470 | .00850 |
| .598 | | .00800 | .00000 | .00000 | -.00000 | .00000 | .00000 | .00000 | .00000 | .00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES (18-1-11 OAI45A 01(-MPS NOZ)

(C2F005) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 915/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|--------|---------|---------|----------|---------|--------|---------|--------|
| .902 | -5.238 | -.03410 | .01960 | -.00100 | .00000 | 25.00000 | -.10960 | .01430 | -.00470 | .00270 |
| .901 | -.228 | .00960 | .01960 | -.00600 | -.01000 | 25.00000 | -.10960 | .01430 | -.01470 | .00270 |
| .900 | 2.357 | .02040 | .01960 | -.00600 | -.01000 | 25.00000 | -.10960 | .01430 | -.01470 | .00270 |
| .898 | 4.858 | .04520 | .02210 | -.00340 | -.01000 | 25.00000 | -.10290 | .01430 | -.00960 | .00270 |
| .903 | 7.965 | .03770 | .01960 | -.00600 | -.01000 | 25.00000 | -.10290 | .01430 | -.01470 | .00270 |
| .899 | 9.992 | .03730 | .01960 | -.00600 | .00000 | 25.00000 | -.09620 | .01430 | -.01470 | .00270 |
| .902 | 12.027 | .03450 | .02430 | -.00130 | .00000 | 25.00000 | -.09620 | .01850 | -.00960 | .00700 |
| .902 | 15.072 | .03340 | .02430 | -.00130 | .00000 | 25.00000 | -.10290 | .01850 | -.00960 | .00700 |
| .901 | 17.065 | .06200 | .02640 | .00080 | .00000 | 25.00000 | -.08270 | .02280 | -.00960 | .01120 |
| .900 | 18.999 | .09560 | .02600 | .00040 | .00000 | 25.00000 | -.02870 | .02700 | -.01470 | .01550 |
| | GRADIENT | .00698 | .00049 | .00051 | .00000 | -.00000 | .00131 | .00000 | .00100 | .00000 |

RUN NO. 914/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|---------|--------|---------|--------|----------|---------|--------|---------|---------|
| 1.199 | -5.247 | -.03220 | .01710 | -.00350 | .00000 | 25.00000 | -.12310 | .01430 | -.00980 | .00270 |
| 1.199 | -.217 | .00760 | .01500 | -.00560 | .00300 | 25.00000 | -.12310 | .01000 | -.00980 | -.00150 |
| 1.201 | 2.366 | .01720 | .01500 | -.00560 | .00300 | 25.00000 | -.12310 | .01000 | -.00980 | -.00150 |
| 1.200 | 4.911 | .03850 | .01710 | -.00350 | .00000 | 25.00000 | -.12310 | .01430 | -.00980 | .00270 |
| 1.198 | 7.997 | .03210 | .01640 | .00150 | .00000 | 25.00000 | -.11640 | .01280 | -.00980 | .01280 |
| 1.199 | 10.040 | .03200 | .02140 | .00070 | .00000 | 25.00000 | -.11640 | .02280 | -.00980 | .01120 |
| 1.200 | 12.069 | .02710 | .01850 | .00360 | .00000 | 25.00000 | -.10960 | .01700 | -.00980 | .01700 |
| 1.200 | 15.077 | .02600 | .02140 | .00070 | .00000 | 25.00000 | -.10960 | .02280 | -.00980 | .01120 |
| 1.199 | 17.062 | .03530 | .01920 | -.00140 | .00000 | 25.00000 | -.10960 | .01850 | -.00980 | .00700 |
| 1.197 | 19.033 | .06020 | .02100 | .00110 | .00000 | 25.00000 | -.11640 | .01700 | -.01470 | .01700 |
| | GRADIENT | .00602 | .00041 | .00041 | .00000 | .00000 | .00000 | .00084 | .00000 | .00082 |

RUN NO. 911/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|---------|--------|---------|--------|----------|---------|--------|---------|--------|
| 1.405 | -5.238 | -.03820 | .01260 | .00190 | .02910 | 25.00000 | -.12310 | .01000 | .00520 | .00150 |
| 1.405 | -.230 | .00200 | .00710 | .00220 | .02910 | 25.00000 | -.12310 | .00430 | .00510 | .00430 |
| 1.402 | 2.329 | .00970 | .00970 | .00390 | .02910 | 25.00000 | -.12310 | .01430 | .00510 | .00270 |
| 1.400 | 4.884 | .03730 | .00930 | .00930 | .02910 | 25.00000 | -.12310 | .00850 | .01020 | .00850 |
| 1.401 | 7.961 | .01890 | .00930 | .00930 | .02910 | 25.00000 | -.12310 | .00850 | .01020 | .00850 |
| 1.401 | 10.007 | .02450 | .01640 | .00650 | .01940 | 25.00000 | -.12310 | .01280 | .00030 | .01280 |
| 1.402 | 12.032 | .02260 | .01640 | .00650 | .01940 | 25.00000 | -.12310 | .01280 | .00030 | .01280 |
| 1.403 | 15.032 | .02890 | .01720 | .00150 | .01940 | 25.00000 | -.12310 | .01430 | .00030 | .00270 |
| 1.390 | 17.055 | .05900 | .01460 | -.00100 | .02910 | 25.00000 | -.12310 | .01430 | -.00480 | .00270 |
| 1.382 | 19.035 | .07160 | .01680 | .00110 | .02910 | 25.00000 | -.12310 | .01850 | -.00480 | .00700 |
| | GRADIENT | .00768 | .00043 | .00139 | .00000 | -.00000 | .00000 | .00082 | .00197 | .00082 |

AMES 118-1-11 0A145A 01 (-MPS NOZ)

(C2F006) (16 JUL 77)

REFERENCE DATA

| | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|--------|
| SREF | = | 2690.0000 | SO.FT. | XMRP | = | 1075.6800 | IN. XO |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. YO |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. ZO |
| SCALE | = | .0500 | | | | | |

PARAMETRIC DATA

| | | | | | |
|--------|---|--------|--------|---|------|
| ALPHA | = | 5.000 | ELEVON | = | .000 |
| ATLRON | = | .000 | BDFLAP | = | .000 |
| SPOBRK | = | 25.000 | RUDDER | = | .000 |
| RN/L | = | 5.000 | | | |

| | | | | | | |
|---------|--------|--------|------|---------------------|--------|------|
| RUN NO. | 917/ 0 | RN/L = | 5.01 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|---------|--------|--------|------|---------------------|--------|------|

| MACH | BETA | ALPHA | ELEVON | AIRLON | BOFLAP | SPOBRK | RUDDER | ELV-1B | ELV-OB | AIR-1B | AIR-OB |
|------|--------|---------|--------|---------|---------|----------|---------|--------|---------|---------|---------|
| .597 | -6.056 | 4.95320 | .01670 | -.00310 | .01940 | 25.00000 | -.13210 | .02490 | .00850 | -.01470 | .00850 |
| .598 | -1.938 | 4.92200 | .01670 | -.00310 | .01940 | 25.00000 | -.15000 | .02490 | .00850 | -.01470 | .00850 |
| .598 | -.899 | 4.89230 | .01670 | -.00310 | .00970 | 25.00000 | .15000 | .02490 | .00850 | -.01470 | .00850 |
| .598 | .086 | 4.97760 | .01670 | -.00310 | .00970 | 25.00000 | -.15000 | .02490 | .00850 | -.01470 | .00850 |
| .598 | .633 | 4.95720 | .01670 | -.00310 | .00970 | 25.00000 | -.13210 | .02490 | .00850 | -.01470 | .00850 |
| .597 | 1.116 | 4.96740 | .01670 | -.00310 | .00970 | 25.00000 | .13210 | .02490 | .00850 | -.01470 | .00850 |
| .598 | 2.173 | 4.89400 | .01670 | -.00310 | .00970 | 25.00000 | -.13210 | .02490 | .00850 | -.01470 | .00850 |
| .597 | 3.200 | 4.87380 | .01670 | -.00310 | .00970 | 25.00000 | .14110 | .02490 | .00850 | -.01470 | .00850 |
| .598 | 4.238 | 4.85850 | .01670 | -.00310 | .00970 | 25.00000 | .14110 | .02490 | .00850 | -.01470 | .00850 |
| .598 | 6.299 | 4.83450 | .01670 | -.00310 | .00970 | 25.00000 | .15000 | .02490 | .00850 | -.01470 | .00850 |
| .598 | 9.000 | 4.81120 | .00000 | -.00000 | -.00098 | .00000 | .00199 | .00000 | -.00000 | -.00000 | -.00000 |

| | | | | | |
|--------|--------|--------|------|---------------------|-------------|
| BIN NO | 916/ 0 | RN/L = | 5.02 | GRADIENT INTERVAL = | -5.00/ 5.00 |
|--------|--------|--------|------|---------------------|-------------|

| MACH | BETA | ALPHA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|--------|---------|--------|---------|---------|----------|---------|--------|--------|---------|--------|
| .903 | -6.113 | 4.97030 | .01670 | -.00310 | .04850 | 25.00000 | -.12310 | .02490 | .00850 | -.01470 | .00850 |
| .901 | -1.984 | 4.93260 | .01670 | -.00310 | .04850 | 25.00000 | -.15000 | .02490 | .00850 | -.01470 | .00850 |
| .900 | - | 4.91480 | .01670 | -.00310 | .04850 | 25.00000 | -.16800 | .02490 | .00850 | -.01470 | .00850 |
| .901 | .097 | 4.73090 | .01670 | -.00310 | .04850 | 25.00000 | -.19490 | .02490 | .00850 | -.01470 | .00850 |
| .899 | .644 | 4.95040 | .01670 | -.00310 | .01940 | 25.00000 | -.11640 | .02490 | .00850 | -.01470 | .00850 |
| .901 | 1.151 | 4.91580 | .01670 | -.00310 | .01940 | 25.00000 | -.10960 | .02490 | .00850 | -.01470 | .00850 |
| .900 | 3.204 | 4.90350 | .01670 | -.00310 | .01940 | 25.00000 | -.12310 | .02490 | .00850 | -.01470 | .00850 |
| .899 | 3.245 | 4.90140 | .01670 | -.00310 | .01940 | 25.00000 | -.12310 | .02490 | .00850 | -.01470 | .00850 |
| .899 | 4.287 | 4.88500 | .01670 | -.00310 | .01940 | 25.00000 | -.12310 | .02490 | .00850 | -.01470 | .00850 |
| .896 | 6.361 | 4.86100 | .01960 | -.00600 | -.01410 | 25.00000 | -.14110 | .02490 | .01430 | -.01470 | .00270 |
| CRASH | .00082 | - | .00000 | -.00000 | -.00574 | .00000 | .00786 | .00000 | .00000 | -.00000 | .00000 |

| | | | | | | | |
|--------|--------|--------|------|----------|------------|--------|------|
| BMN NO | Q13/ 0 | RN/1 = | 5.03 | GRADIENT | INTERVAL = | -5.00/ | 5.00 |
|--------|--------|--------|------|----------|------------|--------|------|

| MACH | BETA | ALPHA | ELEVON | AILERON | BOFLAP | SPDRBK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|----------|---------|---------|---------|---------|--------|----------|----------|---------|---------|---------|---------|
| 1.200 | -6.187 | 5.07240 | .00170 | .01620 | .00970 | 25.00000 | -1.2310 | -.01510 | .01850 | .02530 | .00700 |
| 1.200 | -2.072 | 5.00470 | .00380 | .01830 | .00970 | 25.00000 | -1.12310 | -.01510 | .02280 | .02530 | .01120 |
| 1.198 | -1.023 | 5.01830 | .00170 | .01620 | .00970 | 25.00000 | -1.12310 | -.01510 | .01850 | .02530 | .00700 |
| 1.200 | .029 | 4.94540 | .00170 | .01620 | .00970 | 25.00000 | -1.12310 | -.01510 | .01850 | .02530 | .00700 |
| 1.201 | .547 | 4.96840 | -.00300 | .01660 | .00970 | 25.00000 | -1.12310 | -.02020 | .01430 | .03040 | .00270 |
| 1.201 | 1.074 | 4.98000 | -.00300 | .01660 | .00970 | 25.00000 | -1.12310 | -.02020 | .01430 | .03040 | .00270 |
| 1.200 | 2.117 | 4.98600 | -.00040 | .01400 | .00970 | 25.00000 | -1.12310 | -.01510 | .01430 | .02530 | .00270 |
| 1.199 | 3.157 | 4.98460 | -.00040 | .01400 | .00970 | 25.00000 | -1.12310 | -.01510 | .01430 | .02530 | .00270 |
| 1.199 | 4.201 | 4.98780 | -.00040 | .01400 | .00970 | 25.00000 | -1.13210 | -.01510 | .01430 | .02530 | .00270 |
| 1.195 | 6.303 | 4.99230 | -.00040 | .01400 | .00970 | 25.00000 | -1.14110 | -.01510 | .01430 | .02530 | .00270 |
| GRADIENT | -.00237 | - | -.00059 | -.00068 | .00000 | .00000 | -.00156 | .00006 | -.00126 | -.00006 | -.00127 |

DATE 10 MAR 80

OA145 TABULATED FORCE DATA

PAGE 1245

AMES 118-1-11 0A145A 01 (-MPS NOZ)

(C2F008) (16 JUL 77)

REFERENCE DATA

SREF
LREF
BREF
SCALE

| | | |
|-----------|-----|----|
| 1076.6800 | IN. | XO |
| .0000 | IN. | YO |
| 375.0000 | IN. | ZO |

| | | | | | |
|--------|---|--------|--------|---|------|
| ALPHA | = | 5.000 | ELEVON | = | .000 |
| AILRON | = | .000 | BDFLAP | = | .000 |
| SPDBRK | = | 25.000 | RUDDER | = | .000 |
| RN/L | = | 5.000 | | | |

| | | | |
|---------|--------|-------------|---------------------------------|
| RUN NO. | 912/ 0 | RN/L = 4.99 | GRADIENT INTERVAL = -5.00/ 5.00 |
|---------|--------|-------------|---------------------------------|

MACH
1.401
1.405
1.404
1.404
1.404
1.403
1.403
1.403
1.403

BETA
-6.253
-2.093
-1.035
- .012
 .534
 1.077
 2.134
 3.179
 4.228
 6.341
ADIENT

ALPHA
5.04320
5.02490
5.03100
4.92870
4.96330
4.99020
4.99340
5.00490
5.00980
5.02140
- .00053

ELEVON
 .01180
 .01390
 .01430
 .01720
 .01460
 .01390
 .01180
 .01460
 .01180
 .01180
 .00039

AIRON
 .00180
 .00400
 .00440
 .00150
 .00100
 .00400
 .00180
 .00100
 .00180
 .00180
 .00052

[illegible]

RUDDER
-- 12310
-- 12310
-- 12310
-- 12310
-- 12310
-- 12310
-- 13210
-- 13210
-- 14110
-- 15000
-- 00280

ELV-18
 .01500
 .01500
 .02010
 .02010
 .01500
 .01500
 .01500
 .01500
 .01500
 .01500
 .01500
 .00050

AIL-18
- . 00480
- . 00480
: 00030
: 00030
- . 00480
- . 00480
: 00480
- . 00480
- . 00480
- . 00480
- . 00050

AIL-08
 . 00850
 . 01280
 . 00850
 . 00270
 . 00270
 . 01280
 . 00850
 . 00270
 . 00850
 . 00850
 -. 00054

AMES 118-1-11 0A145A 01

(C2F0G7) (01 SEP 77)

REFERENCE DATA

SREF
LREF
BREF
SCALE

| | | |
|-----------|-----|----|
| 1076.6800 | IN. | X0 |
| .0000 | IN. | Y0 |
| 375.0000 | IN. | Z0 |

| | | | | | |
|--------|---|-------|--------|---|--------|
| ALPHA | = | 5.000 | BETA | = | .000 |
| ELEVON | = | .000 | AILRON | = | .000 |
| BDFLAP | = | .000 | SPDBRK | = | 25.000 |
| RUDDER | = | .000 | RN/L | = | 5.000 |

| RUN NO. | 356/ 0 | RN/L = | 4.91 | GRADIENT | INTERVAL = | -5.00/ | 5.00 |
|---------|--------|--------|------|----------|------------|--------|------|
|---------|--------|--------|------|----------|------------|--------|------|

| MACH | Z | GRADIENT |
|-------|---------|----------|
| 1.098 | -40.000 | |
| 1.102 | -20.000 | |
| 1.104 | .000 | |
| 1.100 | 20.000 | |
| 1.102 | 40.000 | |

ALPHA
5.19280
5.15180
5.14120
5.08500
5.09400
.00000

BETA
.03200
.03380
.03260
.03050
.03250
.00000

ELEVON
 .01710
 .01710
 .02220
 .01290
 .01790
 .00000

AIRON
.00070
.00070
.00080
.00350
.00350
.00000

BDFLAP
.01000
.00000
.01000
.01000
.01000
.00000

SPDBRK
 . 00000
 . 00000
 . 00000
 . 00000
 . 00000
 . 00000
 . 00000

RUDDER
.06820
.04260
.01700
.00000
.01700
.00000

| ELV-1B | ELV-0B |
|--------|--------|
| .01000 | .02420 |
| .01000 | .02420 |
| .02010 | .02420 |
| .01000 | .01570 |
| .02010 | .01570 |
| .00000 | .00000 |

ELV-08
.02420
.02420
.02420
.01570
.01570
.00000

DATE 10 MAR 80,

0A145 TABULATED FORCE DATA

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AMES 118-1-11 0A145A 01

(C2F007) (01 SEP 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BRFL = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDGRK = 25.000
 RUDDER = .000 RN/L = 5.000

RUN NO. 367/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | Z | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDGRK | RUDDER | ELV-1B | ELV-0B |
|-------|----------|---------|--------|--------|---------|--------|----------|--------|--------|--------|
| 1.199 | -40.000 | 5.16300 | .16310 | .00960 | -.00030 | .00000 | 25.00000 | .00000 | .01500 | .00430 |
| 1.206 | -20.000 | 5.12750 | .16280 | .01720 | .00150 | .00000 | 25.00000 | .00000 | .02010 | .01420 |
| 1.200 | -10.000 | 5.10550 | .16520 | .01750 | -.00390 | .00000 | 25.00000 | .00000 | .01500 | .02000 |
| 1.204 | .000 | 5.07280 | .16210 | .01460 | -.00100 | .00000 | 25.00000 | .00000 | .01500 | .01420 |
| 1.197 | 20.000 | 5.04120 | .16090 | .01710 | -.00350 | .00000 | 25.00000 | .00000 | .02000 | .01420 |
| 1.199 | 40.000 | 5.01550 | .16600 | .02250 | -.00380 | .00000 | 25.00000 | .00000 | .02500 | .02000 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 |

AMES 118-1-11 0A145A 01

(C2F008) (01 SEP 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BRFL = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDGRK = .000
 RUDDER = .000 RN/L = 5.000

RUN NO. 886/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | Z | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDGRK | RUDDER | ELV-1B | ELV-0B |
|------|----------|---------|---------|--------|---------|--------|--------|---------|--------|--------|
| .951 | -40.000 | 4.91470 | .04360 | .01750 | -.00310 | .01940 | .00000 | -.10960 | .02500 | .01000 |
| .951 | -30.000 | 4.89330 | .03890 | .01750 | -.00310 | .01940 | .00000 | -.09620 | .02500 | .01000 |
| .953 | -20.000 | 4.88960 | .04130 | .01750 | -.00310 | .01940 | .00000 | -.10290 | .02500 | .01000 |
| .952 | -10.000 | 4.88010 | .04360 | .01750 | -.00310 | .01940 | .00000 | -.09620 | .02500 | .01000 |
| .952 | -5.000 | 4.87630 | .04300 | .01750 | -.00310 | .01940 | .00000 | -.09620 | .02500 | .01000 |
| .952 | .000 | 4.86860 | .04180 | .01960 | -.00100 | .01940 | .00000 | -.09620 | .02500 | .01430 |
| .951 | 5.000 | 4.86590 | .04080 | .01960 | -.00100 | .01940 | .00000 | -.09620 | .02500 | .01430 |
| .953 | 10.000 | 4.86300 | .03930 | .01960 | -.00100 | .01940 | .00000 | -.10290 | .02500 | .01430 |
| .952 | 20.000 | 4.83930 | .03690 | .01960 | -.00100 | .01940 | .00000 | -.09620 | .02500 | .01430 |
| .951 | 30.000 | 4.81760 | .03580 | .01960 | -.00100 | .01940 | .00000 | -.10290 | .02500 | .01430 |
| .948 | 40.000 | 4.79320 | .03830 | .01960 | -.00100 | .01940 | .00000 | -.10290 | .02500 | .01430 |
| | GRADIENT | -.00104 | -.00022 | .00021 | .00021 | .00000 | .00000 | .00000 | .00000 | .00043 |

OAI145 TABULATED FORCE DATA

DATE 10 MAR 80

(C2F0G8) (01 SEP 77)

AMES 118-1-111 OAI145A 01

REFERENCE DATA
 SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA
 ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPOBRK = .000
 RUDDER = .000 RN/L = 5.000

| RUN NO. 887/ 0 | | RN/L = 5.00 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|--------|---------------------------------|---------|
| MACH | Z | ALPHA | BETA | ELEVON | AILRON |
| 1.050 | -40.000 | 5.02470 | .04450 | .01960 | -.00100 |
| 1.051 | -30.000 | 5.00030 | .04060 | .01960 | -.00100 |
| 1.052 | -20.000 | 4.99330 | .04340 | .01960 | -.00100 |
| 1.052 | -10.000 | 4.98090 | .04540 | .02180 | .00120 |
| 1.052 | .000 | 4.96050 | .04320 | .02180 | .00120 |
| 1.052 | 10.000 | 4.94320 | .04070 | .02430 | .00370 |
| 1.052 | 20.000 | 4.87480 | .03610 | .02430 | .00370 |
| 1.051 | 30.000 | 4.87390 | .03600 | .02430 | .00370 |
| 1.051 | 35.000 | 4.88050 | .03780 | .02430 | .00370 |
| 1.051 | GRADIENT | .00000 | .00000 | .00000 | .00000 |
| RUN NO. 889/ 0 | | RN/L = 4.99 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
| MACH | Z | ALPHA | BETA | ELEVON | AILRON |
| 1.199 | -40.000 | 5.05960 | .04350 | .02220 | .00160 |
| 1.199 | -30.000 | 4.88080 | .03330 | .01960 | -.00100 |
| 1.201 | -20.000 | 4.91720 | .03700 | .02220 | .00160 |
| 1.200 | -10.000 | 4.88970 | .03870 | .02220 | .00160 |
| 1.200 | .000 | 4.84200 | .03640 | .02180 | .00120 |
| 1.200 | 10.000 | 4.86350 | .03650 | .01960 | -.00100 |
| 1.198 | 20.000 | 4.85260 | .03570 | .01960 | -.00100 |
| 1.199 | 30.000 | 4.85150 | .03520 | .01960 | -.00100 |
| 1.200 | 35.000 | 4.87970 | .03810 | .01940 | -.00100 |
| 1.200 | GRADIENT | .00000 | .00000 | .00000 | .00000 |

| RUN NO. 894/ 0 | | RN/L = 5.01 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|--------|---------------------------------|--------|
| MACH | Z | ALPHA | BETA | ELEVON | AILRON |
| 1.294 | -40.000 | 4.94340 | .03790 | .02180 | .00620 |
| 1.299 | -30.000 | 4.91480 | .03400 | .02180 | .00620 |
| 1.296 | -20.000 | 4.86118 | .03600 | .02180 | .00620 |
| 1.298 | -10.000 | 4.84920 | .03730 | .02400 | .00830 |
| 1.293 | .000 | 4.85590 | .03540 | .02400 | .00830 |
| 1.297 | 10.000 | 4.85970 | .03360 | .02400 | .00830 |
| 1.296 | 20.000 | 4.80760 | .03160 | .02180 | .00620 |
| 1.296 | 30.000 | 4.75790 | .03140 | .02180 | .00620 |
| 1.296 | 35.000 | 4.77670 | .03310 | .02180 | .00620 |
| 1.296 | GRADIENT | .00000 | .00000 | .00000 | .00000 |

| RUN NO. 894/ 0 | | RN/L = 5.01 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|--------|---------------------------------|--------|
| MACH | Z | ALPHA | BETA | ELEVON | AILRON |
| 1.294 | -40.000 | 4.94340 | .03790 | .02180 | .00620 |
| 1.299 | -30.000 | 4.91480 | .03400 | .02180 | .00620 |
| 1.296 | -20.000 | 4.86118 | .03600 | .02180 | .00620 |
| 1.298 | -10.000 | 4.84920 | .03730 | .02400 | .00830 |
| 1.293 | .000 | 4.85590 | .03540 | .02400 | .00830 |
| 1.297 | 10.000 | 4.85970 | .03360 | .02400 | .00830 |
| 1.296 | 20.000 | 4.80760 | .03160 | .02180 | .00620 |
| 1.296 | 30.000 | 4.75790 | .03140 | .02180 | .00620 |
| 1.296 | 35.000 | 4.77670 | .03310 | .02180 | .00620 |
| 1.296 | GRADIENT | .00000 | .00000 | .00000 | .00000 |

| RUN NO. 894/ 0 | | RN/L = 5.01 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|--------|---------------------------------|--------|
| MACH | Z | ALPHA | BETA | ELEVON | AILRON |
| 1.294 | -40.000 | 4.94340 | .03790 | .02180 | .00620 |
| 1.299 | -30.000 | 4.91480 | .03400 | .02180 | .00620 |
| 1.296 | -20.000 | 4.86118 | .03600 | .02180 | .00620 |
| 1.298 | -10.000 | 4.84920 | .03730 | .02400 | .00830 |
| 1.293 | .000 | 4.85590 | .03540 | .02400 | .00830 |
| 1.297 | 10.000 | 4.85970 | .03360 | .02400 | .00830 |
| 1.296 | 20.000 | 4.80760 | .03160 | .02180 | .00620 |
| 1.296 | 30.000 | 4.75790 | .03140 | .02180 | .00620 |
| 1.296 | 35.000 | 4.77670 | .03310 | .02180 | .00620 |
| 1.296 | GRADIENT | .00000 | .00000 | .00000 | .00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1248

(C2F008) (01 SEP 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 AILRON = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO BDFLAP = .000 SPOBRK = .000
 SCALE = .0500 RUDDER = .000 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 895/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | Z | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B |
|-------|----------|---------|--------|--------|--------|--------|--------|---------|--------|--------|
| 1.400 | -40.000 | 4.94560 | .03810 | .01930 | .00360 | .02910 | .00000 | -.10290 | .02010 | .01850 |
| 1.405 | -30.000 | 4.87130 | .03250 | .01930 | .00360 | .02910 | .00000 | -.10290 | .02010 | .01850 |
| 1.409 | -20.000 | 4.82190 | .03340 | .01930 | .00360 | .02910 | .00000 | -.10290 | .02010 | .01850 |
| 1.407 | -10.000 | 4.83150 | .03460 | .01930 | .00360 | .02910 | .00000 | -.10960 | .02010 | .01850 |
| 1.407 | .000 | 4.83600 | .03380 | .01930 | .00360 | .02910 | .00000 | -.10960 | .02010 | .01850 |
| 1.404 | 10.000 | 4.84050 | .03310 | .01930 | .00360 | .02910 | .00000 | -.10960 | .02010 | .01850 |
| 1.401 | 20.000 | 4.82170 | .03100 | .01930 | .00360 | .02910 | .00000 | -.10960 | .02010 | .01850 |
| 1.398 | 30.000 | 4.72910 | .03020 | .01930 | .00360 | .02910 | .00000 | -.10960 | .02010 | .01850 |
| 1.399 | 35.000 | 4.69050 | .03080 | .01720 | .00360 | .02910 | .00000 | -.10960 | .02010 | .01430 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 |

(C2F009) (16 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO Z = -20.000 ALPHA = 5.000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO BETA = .000 ELEVON = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO AILRON = .000 BDFLAP = .000
 SCALE = .0500 SPOBRK = .000 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 892/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|---------|---------|--------|---------|--------|--------|--------|--------|---------|--------|
| 1.199 | -10.771 | 4.93120 | .04070 | .01960 | -.00100 | .01940 | .00000 | .02500 | .01430 | -.00470 | .00270 |
| 1.201 | -4.954 | 4.92730 | .03900 | .01960 | -.00100 | .00970 | .00000 | .02500 | .01430 | -.00470 | .00270 |
| 1.201 | -2.442 | 4.92610 | .03880 | .02430 | .00370 | .00970 | .00000 | .03010 | .01850 | .00040 | .00700 |
| 1.199 | -.123 | 4.92680 | .03760 | .02430 | .00370 | .00970 | .00000 | .03010 | .01850 | .00040 | .00700 |
| 1.201 | 2.496 | 4.92730 | .03590 | .02430 | .00370 | .00970 | .00000 | .03010 | .01850 | .00040 | .00700 |
| 1.200 | 5.005 | 4.92950 | .03510 | .02430 | .00370 | .00970 | .00000 | .03010 | .01850 | .00040 | .00700 |
| 1.200 | 10.027 | 4.93060 | .03280 | .02430 | .00370 | .00970 | .00000 | .03010 | .01850 | .00040 | .00700 |
| | GRADIENT | .00003 | -.00043 | .00057 | .00057 | .00036 | .00000 | .00062 | .00051 | .00062 | .00052 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

(C2F0H0) (16 JUL 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 890/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | | | | | | | | |
|-------|----------|---------|---------|---------|---------|--------|--------|---------|---------|---------|---------|
| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
| 1.201 | -10.771 | 4.88480 | .04100 | .02220 | .00160 | .01940 | .00000 | .03010 | .01430 | .00040 | .00270 |
| 1.201 | -4.954 | 4.88490 | .04050 | .02220 | .00160 | .00970 | .00000 | .03010 | .01430 | .00040 | .00270 |
| 1.201 | -2.459 | 4.88500 | .03920 | .01960 | .00100 | .00970 | .00000 | .02500 | .01430 | .00470 | .00270 |
| 1.201 | -1.116 | 4.88490 | .03910 | .01960 | .00100 | .00970 | .00000 | .02500 | .01430 | .00470 | .00270 |
| 1.201 | 2.513 | 4.88590 | .03720 | .01960 | .00100 | .00970 | .00000 | .02500 | .01430 | .00470 | .00270 |
| | GRADIENT | .00012 | -.00041 | -.00031 | -.00031 | .00000 | .00000 | -.00062 | -.00000 | -.00062 | -.00000 |

PARAMETRIC DATA

Z =
 BETA =
 AILRON =
 SPDBRK =
 ALPHA = 5.000
 ELEVON = .000
 BDFLAP = .000
 RN/L = 5.000

AMES 118-1-11 0A145A 01

(C2F0H1) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 893/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | | | | | | | | |
|-------|----------|---------|---------|--------|--------|--------|--------|---------|---------|--------|--------|
| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
| 1.199 | -10.762 | 4.97480 | .04210 | .02180 | .00120 | .01940 | .00000 | .02500 | .01850 | .00470 | .00700 |
| 1.201 | -4.954 | 4.97920 | .04120 | .02180 | .00120 | .00970 | .00000 | .02500 | .01850 | .00470 | .00700 |
| 1.201 | -2.451 | 4.97740 | .04050 | .02180 | .00120 | .00970 | .00000 | .02500 | .01850 | .00470 | .00700 |
| 1.201 | -1.116 | 4.97550 | .03930 | .02180 | .00120 | .00970 | .00000 | .02500 | .01850 | .00470 | .00700 |
| 1.201 | 2.496 | 4.97270 | .03810 | .02180 | .00120 | .00970 | .00000 | .02500 | .01850 | .00470 | .00700 |
| 1.201 | 5.024 | 4.97480 | .03680 | .02180 | .00120 | .01940 | .00000 | .02500 | .01850 | .00470 | .00700 |
| 1.201 | 10.003 | 4.98150 | .03420 | .02180 | .00120 | .00970 | .00000 | .02500 | .01850 | .00470 | .00700 |
| | GRADIENT | -.00087 | -.00043 | .00000 | .00000 | .00000 | .00000 | -.00000 | -.00000 | .00000 | .00000 |

PARAMETRIC DATA

Z =
 BETA =
 AILRON =
 SPDBRK =
 ALPHA = 5.000
 ELEVON = .000
 BDFLAP = .000
 RN/L = 5.000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

Z = .000 ALPHA = 5.000
BETA = .000 ELEVON = .000
AILRON = .000 BOFLAP = .000
SPDBRK = .000 RN/L = 5.000

RUN NO. 891/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|---------|---------|---------|---------|---------|--------|--------|--------|---------|--------|
| 1.201 | -10.754 | 4.91100 | .04220 | .01960 | -.00100 | .01940 | .00000 | .02500 | .01430 | -.00470 | .00270 |
| 1.201 | -4.939 | 4.91050 | .04130 | .02220 | .00160 | .00970 | .00000 | .03010 | .01430 | .00040 | .00270 |
| 1.200 | -2.442 | 4.90940 | .04080 | .02220 | .00160 | .01940 | .00000 | .03010 | .01430 | .00040 | .00270 |
| 1.200 | -1.103 | 4.91000 | .03950 | .02220 | .00160 | .01940 | .00000 | .03010 | .01430 | .00040 | .00270 |
| 1.201 | 2.505 | 4.91020 | .03760 | .02220 | .00160 | .00970 | .00000 | .03010 | .01430 | .00040 | .00270 |
| 1.201 | 5.024 | 4.91050 | .03650 | .02220 | .00160 | .00970 | .00000 | .03010 | .01430 | .00040 | .00270 |
| 1.201 | 10.003 | 4.91200 | .03470 | .02220 | .00160 | .00970 | .00000 | .03010 | .01430 | .00040 | .00270 |
| 1.201 | GRADIENT | -.00001 | -.00050 | -.00000 | .00000 | -.00002 | .00000 | .00000 | .00000 | .00000 | .00000 |

(C2F0H2) (16 JUL 77)

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REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BOFLAP = .000
SPDBRK = .000 RUDDER = .000
RN/L = 5.000

RUN NO. 170/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPDBRK | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|-------|----------|---------|---------|---------|---------|--------|---------|---------|---------|---------|---------|
| 1.194 | -9.867 | 2.04320 | -.03620 | -.01110 | -.06030 | .00000 | .01670 | -.02720 | -.04530 | -.00700 | -.01530 |
| 1.201 | -4.847 | 2.08680 | -.03630 | -.01620 | -.06030 | .00000 | -.00840 | -.02720 | -.04540 | -.00700 | -.02540 |
| 1.202 | .181 | 2.19350 | -.03910 | -.01400 | -.05030 | .00000 | .00000 | -.03290 | -.04530 | -.01270 | -.01530 |
| 1.199 | 2.872 | 2.26790 | -.04160 | -.01650 | -.05030 | .00000 | .00000 | -.03290 | -.05040 | -.01270 | -.02040 |
| 1.196 | 5.543 | 2.20060 | -.03910 | -.01900 | -.05030 | .00000 | .00850 | -.03290 | -.04540 | -.01270 | -.02540 |
| 1.200 | 6.350 | 2.17140 | -.04160 | -.02150 | -.05030 | .00000 | .02560 | -.03290 | -.05040 | -.01270 | -.03040 |
| 1.195 | 7.539 | 2.18710 | -.04160 | -.01650 | -.05030 | .00000 | .03410 | -.03290 | -.05040 | -.01270 | -.02040 |
| 1.198 | 8.549 | 2.13050 | -.04410 | -.01900 | -.05030 | .00000 | .03410 | -.03290 | -.05540 | -.01270 | -.02540 |
| 1.200 | 9.310 | 2.20090 | -.04160 | -.01650 | -.05030 | .00000 | .03410 | -.03290 | -.05040 | -.01270 | -.02040 |
| 1.196 | 10.599 | 2.21620 | -.03910 | -.01400 | -.05030 | .00000 | .08520 | -.03290 | -.04530 | -.01270 | -.01530 |
| 1.199 | 11.412 | 2.22330 | -.04410 | -.01650 | -.05030 | .00000 | .11080 | -.03290 | -.05540 | -.01270 | -.02040 |
| 1.197 | 12.609 | 2.24340 | -.04160 | -.01650 | -.05030 | .00000 | .13640 | -.03290 | -.05040 | -.01270 | -.02040 |
| 1.199 | 13.852 | 2.26490 | -.04160 | -.01650 | -.05030 | .00000 | .16190 | -.03290 | -.05040 | -.01270 | -.02040 |
| 1.195 | 15.909 | 2.31770 | -.04160 | -.01650 | -.07040 | .00000 | .16190 | -.03290 | -.05040 | -.01270 | -.02040 |
| 1.195 | 20.655 | 2.39290 | -.04160 | -.01650 | -.07040 | .00000 | .26420 | -.03290 | -.05040 | -.01270 | -.03040 |
| 1.194 | GRADIENT | -.01310 | -.00067 | -.00002 | .00139 | .00000 | .00116 | .00079 | -.00056 | -.00079 | .00082 |

(C2F0H3) (16 JUL 77)

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(C2F0H3) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0900

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AILRON = .000 RDFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 142/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | RDFLAP | SPOBRK | RUDDER | ELV-08 | AIL-1B | AIL-08 |
|-------|----------|---------|---------|---------|---------|----------|---------|---------|---------|---------|
| 1.294 | -5.619 | 2.09370 | -.04170 | -.02660 | -.09050 | 25.00000 | -.00840 | -.05050 | -.01270 | -.04050 |
| 1.296 | -.195 | 2.20690 | -.04170 | -.02660 | -.08040 | 25.00000 | -.01670 | -.05050 | -.01270 | -.04050 |
| 1.317 | .487 | 2.22160 | -.03630 | -.03130 | -.09050 | 25.00000 | -.00840 | -.05050 | -.01200 | -.05050 |
| 1.297 | 1.610 | 2.27060 | -.03910 | -.02910 | -.09050 | 25.00000 | -.00840 | -.05050 | -.01770 | -.04050 |
| 1.294 | 2.328 | 2.28770 | -.04170 | -.02660 | -.09050 | 25.00000 | -.00840 | -.05050 | -.01270 | -.04050 |
| 1.294 | 5.097 | 2.28170 | -.04170 | -.02660 | -.08040 | 25.00000 | -.00840 | -.05050 | -.01270 | -.04050 |
| 1.294 | 6.165 | 2.20690 | -.06440 | -.05430 | -.08040 | 25.00000 | -.00840 | -.10100 | -.01770 | -.09100 |
| 1.294 | 7.179 | 2.22820 | -.03910 | -.02400 | -.08040 | 25.00000 | -.00840 | -.04540 | -.01270 | -.03540 |
| 1.294 | 8.177 | 2.22000 | -.03910 | -.02400 | -.08040 | 25.00000 | -.00840 | -.04540 | -.01270 | -.03540 |
| 1.293 | 9.114 | 2.22510 | -.04160 | -.02660 | -.08040 | 25.00000 | -.00840 | -.05550 | -.01770 | -.03550 |
| 1.292 | 10.252 | 2.23850 | -.04170 | -.02660 | -.08040 | 25.00000 | -.00840 | -.05050 | -.01270 | -.04050 |
| 1.291 | 11.216 | 2.24970 | -.03910 | -.02910 | -.08040 | 25.00000 | -.00840 | -.05050 | -.01770 | -.04050 |
| 1.293 | 12.279 | 2.25810 | -.03910 | -.02910 | -.09050 | 25.00000 | .00000 | -.05050 | -.01770 | -.05050 |
| 1.292 | 13.243 | 2.27780 | -.03920 | -.03410 | -.08040 | 25.00000 | .00000 | -.05050 | -.01770 | -.05050 |
| 1.294 | 15.286 | 2.32240 | -.03910 | -.02910 | -.08040 | 25.00000 | -.00840 | -.05050 | -.01770 | -.04050 |
| 1.294 | 20.231 | 2.38590 | -.03920 | -.03410 | -.09050 | 25.00000 | -.00840 | -.05050 | -.01770 | -.05050 |
| 1.286 | GRADIENT | .03395 | -.00043 | .00034 | -.00332 | .00000 | .00273 | -.00000 | -.00083 | .00150 |

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OAI45 TABULATED FORCE DATA
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REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|---------|--------|----------|---------|---------|---------|---------|
| .597 | -4.953 | -.01800 | .02610 | -.01670 | .00970 | 25.00000 | -.10290 | .02720 | -.01470 | -.01870 |
| .599 | .073 | .01810 | .02390 | -.01880 | .00970 | 25.00000 | -.10290 | .02300 | -.01470 | -.02300 |
| .597 | 2.630 | .02520 | .02610 | -.01670 | .00970 | 25.00000 | -.10290 | .02720 | -.01470 | -.01870 |
| .596 | 5.127 | .05360 | .02610 | -.01670 | .00000 | 25.00000 | -.10290 | .02720 | -.01470 | -.01870 |
| .596 | 7.186 | .05290 | .02610 | -.01670 | .00000 | 25.00000 | -.10290 | .02720 | -.01470 | -.01870 |
| .597 | 8.238 | .05140 | .02390 | -.01880 | .00000 | 25.00000 | -.10290 | .02300 | -.01470 | -.02300 |
| .596 | 10.283 | .04810 | .02610 | -.01670 | .00000 | 25.00000 | -.10290 | .02720 | -.01470 | -.01870 |
| .595 | 12.322 | .04840 | .02610 | -.01670 | .00000 | 25.00000 | -.10290 | .02720 | -.01470 | -.01870 |
| .595 | 15.369 | .05720 | .02350 | -.01930 | .00000 | 25.00000 | -.10290 | .02720 | -.01980 | -.01870 |
| | GRADIENT | .00590 | -.00006 | -.00006 | .00000 | -.00000 | .00000 | -.00012 | -.00000 | -.00012 |

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-OB | AIL-IB | AIL-OB |
|------|----------|---------|---------|---------|---------|----------|--------|---------|---------|---------|
| .900 | -5.029 | -.03150 | -.03350 | -.02340 | -.09050 | 25.00000 | .00000 | -.04550 | -.00130 | -.04550 |
| .904 | .202 | .01120 | -.03350 | -.02340 | -.09050 | 25.00000 | .00000 | -.04550 | -.00130 | -.04550 |
| .898 | 2.827 | .01900 | -.03350 | -.02340 | -.08040 | 25.00000 | .00000 | -.04550 | -.00630 | -.04550 |
| .896 | 5.342 | .05900 | -.03090 | -.02590 | -.09050 | 25.00000 | .00000 | -.04550 | -.00630 | -.04550 |
| .899 | 6.429 | .06310 | -.03090 | -.02590 | -.09050 | 25.00000 | .00000 | -.04550 | -.00630 | -.04550 |
| .900 | 7.426 | .07410 | -.03340 | -.02340 | -.09050 | 25.00000 | .00000 | -.04550 | -.00630 | -.04550 |
| .898 | 8.405 | .07580 | -.02810 | -.02300 | -.09050 | 25.00000 | .00000 | -.04550 | -.00440 | -.05050 |
| .899 | 9.519 | .09050 | -.03310 | -.02300 | -.09050 | 25.00000 | .00000 | -.04550 | -.00440 | -.05050 |
| .898 | 10.498 | .08720 | -.03310 | -.02300 | -.09050 | 25.00000 | .00000 | -.04550 | -.00440 | -.05050 |
| .899 | 11.554 | .08880 | -.03310 | -.02300 | -.08040 | 25.00000 | .00000 | -.04550 | -.01010 | -.05050 |
| .900 | 12.691 | .10650 | -.03030 | -.02020 | -.09050 | 25.00000 | .00000 | -.04550 | -.00060 | -.05050 |
| .898 | 13.621 | .09440 | -.03060 | -.02560 | -.09050 | 25.00000 | .00000 | -.04550 | -.00630 | -.05560 |
| .897 | 15.707 | .11790 | -.03600 | -.03090 | -.09050 | 25.00000 | .00000 | -.04550 | -.00060 | -.05050 |
| .900 | 20.567 | .15070 | -.03060 | -.02560 | -.09050 | 25.00000 | .00000 | -.04550 | -.00000 | -.00000 |
| | GRADIENT | .00297 | .00000 | .00000 | .00385 | .00000 | .00000 | .00000 | .00000 | .00000 |

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPOBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 418/ 0 RN/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 98/ 0 RN/L = 4.88 GRADIENT INTERVAL = -5.00/ 5.00

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OAI45 TABULATED FORCE DATA

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(C2F0H5) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

BETA =
AILRON =
SPOBRK =
RN/L =

ELEVON = .000
BOFLAP = .000
RUDDER = .000

PARAMETRIC DATA

RUN NO. 99/ 0 RN/L = 4.88 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | AIL-1B | ELV-0B | AIL-0B |
|------|----------|---------|---------|---------|---------|----------|---------|---------|---------|---------|---------|
| .897 | -5.439 | -.02870 | -.03600 | -.03090 | -.08040 | 25.00000 | -.00840 | -.01640 | -.00630 | -.05560 | -.05560 |
| .903 | -.038 | .01340 | -.03310 | -.02810 | -.09050 | 25.00000 | -.01670 | -.01070 | -.00060 | -.05560 | -.05560 |
| .899 | 2.334 | .02200 | -.03570 | -.03060 | -.09050 | 25.00000 | -.02510 | -.01070 | -.00060 | -.06060 | -.06060 |
| .897 | 5.055 | .06440 | -.02780 | -.02270 | -.09050 | 25.00000 | -.00840 | -.00510 | .00510 | -.05050 | -.05050 |
| .898 | 7.246 | .07240 | -.02780 | -.02270 | -.09050 | 25.00000 | -.00840 | -.00510 | .00510 | -.05050 | -.05050 |
| .900 | 8.182 | .08320 | -.03060 | -.02560 | -.09050 | 25.00000 | .00000 | -.01070 | -.00060 | -.05050 | -.05050 |
| .899 | 10.292 | .09680 | -.03060 | -.03060 | -.09050 | 25.00000 | -.00840 | -.00570 | -.00570 | -.05560 | -.05560 |
| .896 | 12.304 | .09430 | -.03060 | -.03060 | -.09050 | 25.00000 | -.01670 | -.00570 | -.00570 | -.05560 | -.05560 |
| .897 | 15.440 | .13700 | -.03060 | -.03060 | -.09050 | 25.00000 | -.00840 | -.00570 | -.00570 | -.05560 | -.05560 |
| .889 | 20.472 | .15300 | -.00110 | -.00105 | .00000 | .00000 | -.00354 | -.00000 | .00000 | -.00211 | -.00211 |
| | GRADIENT | .00363 | | | | | | | | | |

AMES 118-1-11 OAI45A 01

(C2F0H6) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

BETA =
AILRON =
SPOBRK =
RN/L =

ELEVON = .000
BOFLAP = .000
RUDDER = .000

PARAMETRIC DATA

RUN NO. 93/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | AIL-1B | ELV-0B | AIL-0B |
|------|----------|---------|----------|--------|---------|----------|---------|----------|--------|----------|--------|
| .901 | -4.644 | -.04990 | 10.01900 | .11370 | -.06030 | 25.00000 | -.02510 | 10.01800 | .07810 | 10.02000 | .14920 |
| .901 | .235 | -.00730 | 10.02200 | .11290 | -.07040 | 25.00000 | -.02510 | 10.01400 | .07430 | 10.03100 | .15140 |
| .900 | 2.732 | -.00370 | 10.02600 | .11670 | -.06030 | 25.00000 | -.02510 | 10.02200 | .08200 | 10.03100 | .15140 |
| .898 | 5.300 | .03530 | 10.02600 | .11670 | -.06030 | 25.00000 | -.02510 | 10.02200 | .08200 | 10.03100 | .15140 |
| .901 | 8.373 | .04530 | 10.02400 | .11470 | -.06030 | 25.00000 | -.02510 | 10.02200 | .07350 | 10.02600 | .15580 |
| .900 | 10.412 | .05340 | 10.02400 | .11480 | -.06030 | 25.00000 | -.02510 | 10.01800 | .07810 | 10.03100 | .15140 |
| .899 | 12.492 | .05260 | 10.02000 | .11510 | -.06030 | 25.00000 | -.05020 | 10.01400 | .07430 | 10.02600 | .15580 |
| .899 | 15.578 | .05640 | 10.01900 | .11370 | -.06030 | 25.00000 | -.03350 | 10.01800 | .07810 | 10.02000 | .14920 |
| .897 | 20.528 | .11160 | 10.02100 | .11150 | -.05030 | 25.00000 | -.05020 | 10.01800 | .07810 | 10.02400 | .14480 |
| | GRADIENT | .00660 | | .00033 | -.00028 | -.00000 | -.00000 | .00035 | .00035 | .00160 | .00032 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

(C2F0H7) (16 JUL 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 181/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|--------|--------|--------|----------|--------|--------|--------|--------|--------|
| .902 | -4.032 | 5.61640 | -04670 | -03160 | -07040 | 25.00000 | .00000 | -03290 | -06060 | -01270 | -05060 |
| .901 | -2.968 | 5.60270 | -04670 | -03160 | -07040 | 25.00000 | .00000 | -03290 | -06060 | -01270 | -05060 |
| .902 | -1.902 | 5.57500 | -04670 | -03160 | -07040 | 25.00000 | .00840 | -03290 | -06060 | -01270 | -05060 |
| .899 | -1.843 | 5.49680 | -04670 | -03160 | -07040 | 25.00000 | .02510 | -03290 | -06060 | -01270 | -05060 |
| .902 | .031 | 5.38280 | -04670 | -03160 | -07040 | 25.00000 | -04180 | -03290 | -06060 | -01270 | -05060 |
| .901 | .426 | 5.45000 | -04670 | -03160 | -07040 | 25.00000 | .05020 | -03290 | -06060 | -01270 | -05060 |
| .902 | .956 | 5.56360 | -04390 | -02880 | -07040 | 25.00000 | .05860 | -02720 | -06060 | -01270 | -05060 |
| .900 | 2.050 | 5.62230 | -04670 | -03160 | -07040 | 25.00000 | -07530 | -03290 | -06060 | -01270 | -05060 |
| .901 | 3.128 | 5.63440 | -04670 | -03160 | -08040 | 25.00000 | -09200 | -03290 | -06060 | -01270 | -05060 |
| .899 | 4.183 | 5.61260 | -04670 | -03160 | -08040 | 25.00000 | -11710 | -03290 | -06060 | -01270 | -05060 |
| .898 | 6.250 | 5.59500 | -04670 | -03160 | -08040 | 25.00000 | -01222 | -00008 | -00000 | -00008 | -00000 |
| | GRADIENT | .00334 | .00004 | .00004 | .00066 | .00000 | | | | | |

AMES 118-1-11 0A145A 01

(C2F0H8) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 20.000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 333/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|----------|--------|--------|--------|----------|--------|--------|--------|--------|--------|
| .398 | -3.451 | 18.64200 | .02220 | .00060 | .01000 | 25.00000 | .05110 | .02010 | .02420 | .00030 | .00130 |
| .397 | -2.938 | 19.14800 | .01960 | .00180 | .01000 | 25.00000 | .04260 | .01500 | .02420 | .00480 | .00130 |
| .398 | -1.858 | 19.16400 | .01960 | .00180 | .01000 | 25.00000 | .04260 | .01500 | .02420 | .00480 | .00130 |
| .397 | -1.332 | 19.16100 | .01960 | .00180 | .01000 | 25.00000 | .03410 | .01500 | .02420 | .00480 | .00130 |
| | GRADIENT | .809 | .01960 | .00180 | .01000 | 25.00000 | .00595 | .00145 | .00000 | .00145 | .00000 |

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OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(C2F0H9) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = 20.000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 423/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-18 | ELV-08 | AIL-18 | AIL-08 |
|-------|----------|--------|----------|---------|--------|----------|---------|----------|----------|---------|---------|
| 1.404 | -5.006 | -0.030 | 20.09800 | .01130 | .00970 | 25.00000 | -1.0960 | 20.14700 | 20.04900 | .02390 | -.00130 |
| 1.404 | .052 | .00610 | 20.09300 | .01100 | .00970 | 25.00000 | -1.0960 | 20.14100 | 20.04400 | .01860 | .00330 |
| 1.401 | 2.666 | .01770 | 20.08500 | .00350 | .00970 | 25.00000 | -1.0960 | 20.12600 | 20.04400 | .00380 | .00330 |
| 1.400 | 5.194 | .03380 | 20.07300 | .00880 | .00970 | 25.00000 | -1.0960 | 20.10200 | 20.04400 | .02100 | .00330 |
| 1.399 | 7.237 | .02490 | 20.07000 | .01130 | .01940 | 25.00000 | -1.0960 | 20.09700 | 20.04400 | -.02590 | .00330 |
| 1.400 | 8.255 | .01710 | 20.06800 | .01380 | .00970 | 25.00000 | -1.0960 | 20.09200 | 20.04400 | -.03090 | .00330 |
| 1.400 | 10.291 | .01380 | 20.06800 | .01380 | .00970 | 25.00000 | -1.0960 | 20.09200 | 20.04400 | -.03090 | .00330 |
| 1.399 | 12.320 | .00810 | 20.06100 | -.02120 | .00970 | 25.00000 | -1.0960 | 20.07700 | 20.04400 | -.04570 | .00330 |
| 1.393 | 15.347 | .00290 | 20.05300 | -.02850 | .00000 | 25.00000 | -1.0960 | 20.06200 | 20.04400 | -.06060 | .00330 |
| | GRADIENT | .00444 | -.00306 | -.00287 | .00000 | -.00000 | .00000 | -.00574 | -.00000 | -.00566 | -.00000 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 2.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 87.200 RUDDER = .000
 RN/L = 5.000

AMES 118-1-11 OAI45A 01

(C2F0I0) (08 JUL 77)

RUN NO. 478/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-18 | ELV-08 | AIL-18 | AIL-08 |
|------|----------|---------|---------|---------|--------|----------|----------|---------|---------|---------|---------|
| .952 | -6.174 | 1.93170 | .01500 | -.00560 | .01940 | 87.00000 | -1.0290 | .02000 | .01000 | -.00980 | -.00150 |
| .953 | -2.009 | 1.94970 | .01500 | -.00560 | .00970 | 87.00000 | -1.15900 | .02000 | .01000 | -.00980 | -.00150 |
| .950 | -.957 | 1.96390 | .01500 | -.00560 | .00000 | 87.00000 | -1.16800 | .02000 | .01000 | -.00980 | -.00150 |
| .950 | .095 | 1.96070 | .01240 | -.00820 | .00000 | 87.00000 | -1.17690 | .01490 | .01000 | -.01490 | -.00150 |
| .952 | .601 | 1.97670 | .01750 | -.00310 | .00000 | 87.00000 | -.09620 | .02500 | .01000 | -.00470 | -.00150 |
| .951 | 1.122 | 1.93980 | .01500 | -.00560 | .00000 | 87.00000 | -.09620 | .02000 | .01000 | -.00980 | -.00150 |
| .950 | 2.169 | 1.95590 | .01500 | -.00560 | .00000 | 87.00000 | -1.10290 | .02000 | .01000 | -.00980 | -.00150 |
| .951 | 3.218 | 1.99000 | .01240 | -.00820 | .02910 | 87.00000 | -1.10960 | .01490 | .01000 | -.01490 | -.00150 |
| .950 | 4.249 | 1.98680 | .01030 | -.01030 | .00000 | 87.00000 | -1.2310 | .01490 | .00580 | -.01490 | -.00580 |
| .947 | 6.301 | 1.98300 | .01030 | -.01030 | .00970 | 87.00000 | -1.15000 | .01490 | .00580 | -.01490 | -.00580 |
| .948 | 8.339 | 1.96470 | .01030 | -.01030 | .01940 | 87.00000 | -1.16800 | .01490 | .00580 | -.01490 | -.00580 |
| | GRADIENT | .00698 | -.00063 | -.00063 | .00108 | .00000 | .00957 | -.00080 | -.00044 | -.00080 | -.00045 |

DATE 10 MAR 80

OA145 TABULATED FORCE DATA

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AMES 118-1-11 0A145A 01

(C2F011) (08 JUL 77)

REFERENCE DATA

| | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|--------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. X0 |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. Y0 |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. Z0 |
| SCALE | = | .0500 | | | | | |

| | | | | | |
|---------|--------|--------|------|---------------------|-------------|
| RUN NO. | 483/ 0 | RN/L = | 4.96 | GRADIENT INTERVAL = | -5.00/ 5.00 |
|---------|--------|--------|------|---------------------|-------------|

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|--------|---------|---------|----------|---------|--------|---------|---------|---------|
| .590 | -5.053 | -.02630 | .01290 | -.00780 | .00970 | 87.00000 | .02000 | .00580 | .00580 | -.00980 | -.00580 |
| .592 | -.134 | .00010 | .01290 | -.00780 | .00970 | 87.00000 | -.10290 | .00580 | .00580 | -.00980 | -.00580 |
| .597 | 4.913 | .03790 | .01290 | -.01020 | .00970 | 87.00000 | -.10290 | .02490 | .00580 | -.01470 | -.00580 |
| .597 | 10.171 | .03870 | .01030 | -.01030 | .00970 | 87.00000 | -.09620 | .01490 | .01490 | -.01490 | -.00580 |
| .599 | 15.200 | .04850 | .01460 | -.00610 | .00000 | 87.00000 | -.08270 | .01490 | .01430 | -.01490 | -.00270 |
| | GRADIENT | .00749 | .00048 | -.00048 | -.00000 | -.00000 | .00000 | .00097 | -.00000 | -.00097 | .00000 |

PARAMETRIC DATA

| | | | | | |
|--------|---|--------|--------|---|------|
| BETA | = | .000 | ELEVON | = | .000 |
| AILRON | = | .000 | 3DFLAP | = | .000 |
| SPOBRK | = | 87.200 | RUDDER | = | .000 |
| RN/L | = | 5.000 | | | |

AMES 118-1-11 0A145A 01

(C2F012) (08 JUL 77)

REFERENCE DATA

| | | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|-----|----|
| SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. | XO |
| LFREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. | YO |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. | ZO |
| SCALE | = | .0500 | | | | | | |

| | | | | | | | |
|---------|-----|---|------|------|-------------------|-------|------|
| RUN NO. | 537 | 0 | RN/L | 5.00 | GRADIENT INTERVAL | -5.00 | 5.00 |
|---------|-----|---|------|------|-------------------|-------|------|

| MACH | BETA | ALPHA | ELEVON | A1LRON | BOFLAP | SPDRBK | RUDDER | ELV-1B | ELV-0B | A1L-1B | A1L-0B |
|-------|----------|---------|--------|--------|--------|----------|---------|--------|--------|--------|--------|
| 1.203 | -6.104 | 5.22660 | .00000 | .00000 | .00000 | 55.00000 | -12310 | .00000 | .00000 | .00000 | .00000 |
| 1.204 | -1.960 | 5.19880 | .00000 | .00000 | .00000 | 55.00000 | -12310 | .00000 | .00000 | .00000 | .00000 |
| 1.203 | -.924 | 5.18700 | .00000 | .00000 | .00000 | 55.00000 | -12310 | .00000 | .00000 | .00000 | .00000 |
| 1.204 | .031 | 5.11640 | .00000 | .00000 | .00000 | 55.00000 | -12310 | .00000 | .00000 | .00000 | .00000 |
| 1.202 | .559 | 5.30210 | .00000 | .00000 | .00000 | 55.00000 | -12310 | .00000 | .00000 | .00000 | .00000 |
| 1.204 | 1.055 | 5.25910 | .00000 | .00000 | .00000 | 55.00000 | -12310 | .00000 | .00000 | .00000 | .00000 |
| 1.201 | 2.127 | 5.22730 | .00000 | .00000 | .00000 | 55.00000 | -12310 | .00000 | .00000 | .00000 | .00000 |
| 1.201 | 3.176 | 5.22020 | .00000 | .00000 | .00000 | 55.00000 | -12310 | .00000 | .00000 | .00000 | .00000 |
| 1.200 | 4.228 | 5.22260 | .00000 | .00000 | .00000 | 55.00000 | -12310 | .00000 | .00000 | .00000 | .00000 |
| 1.199 | 6.324 | 5.22730 | .00000 | .00000 | .00000 | 55.00000 | -12310 | .00000 | .00000 | .00000 | .00000 |
| | GRADIENT | .00706 | .00000 | .00000 | .00000 | .00000 | -.00000 | .00000 | .00000 | .00000 | .00000 |

PARAMETRIC DATA

| | | | | | |
|--------|---|--------|--------|---|------|
| ALPHA | = | 5.000 | ELEVON | = | .000 |
| ATLRON | = | .000 | BDFLAP | = | .000 |
| SPDBRK | = | 55.000 | RUDDER | = | .000 |
| RN/L | = | 5.000 | | | |

DATE 10 MAR 80

OA145 TABULATED FORCE DATA

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AMES 118-1-11 0A145A 01

(C2F013) (08 JUL 77)

REFERENCE DATA

| | | | | |
|-------|---|-----------|--------|------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP |
| LREF | = | 474.8100 | INCHES | YMRP |
| BREF | = | 936.6800 | INCHES | ZMRP |
| SCALE | = | .0500 | | |

RUN NO. 519/ 0 RN/L = 4.76 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | ELV-IB | ELV-OB | AIL-IB | AIL-OB |
|----------|---------|---------|---------|---------|---------|--------|----------|--------|---------|---------|---------|
| 1.404 | -14.736 | 5.05600 | .16830 | .01810 | .00740 | .00000 | 55.00000 | .00500 | .03130 | -.00500 | .01970 |
| 1.404 | -10.664 | 5.05430 | .16230 | .02100 | .00450 | .00000 | 55.00000 | .00500 | .03700 | -.00500 | .01400 |
| 1.404 | -5.433 | 5.05430 | .15290 | .02310 | .00660 | .00000 | 55.00000 | .00500 | .04130 | -.00500 | .01820 |
| 1.446 | -2.768 | 5.05450 | .14830 | .02310 | .00660 | .00000 | 55.00000 | .00500 | .04130 | -.00500 | .01820 |
| 1.404 | -.089 | 5.05520 | .14240 | .02100 | .00450 | .00000 | 55.00000 | .00500 | .03700 | -.00500 | .01400 |
| GRADIENT | .00026 | -.00220 | -.00078 | -.00078 | -.00078 | .00000 | .00000 | .00000 | -.00161 | .00000 | -.00157 |

REFERENCE DATA

| | | | | |
|-------|---|-----------|---------|------|
| SREF | = | 2690.0000 | 50. FT. | XMRP |
| LREF | = | 474.8100 | INCHES | YMRP |
| BREF | = | 936.6800 | INCHES | ZMRP |
| SCALE | = | .0500 | | |

RUN NO. 689/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ALPHA | BETA | ELEVON | AILERON | BOFLAP | SPDBRK | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|---------|---------|---------|---------|----------|---------|--------|--------|--------|
| .899 | -14.965 | 4.96680 | 0.4620 | .01720 | .00650 | .00970 | 15.00000 | .02020 | .01430 | .01030 | .00270 |
| .901 | -10.754 | 4.97060 | .0440 | .01510 | .00440 | .00970 | 15.00000 | .02020 | .01000 | .01030 | .00150 |
| .901 | -4.947 | 4.96680 | 0.4130 | .01510 | .00440 | .00970 | 15.00000 | .02020 | .01000 | .01030 | .00150 |
| .899 | -2.442 | 4.96450 | .04000 | .01510 | .00440 | .00970 | 15.00000 | .02020 | .01000 | .01030 | .00150 |
| .901 | -.089 | 4.96840 | 0.3750 | .01510 | .00440 | .00970 | 15.00000 | .02020 | .01000 | .01030 | .00150 |
| .900 | 8.505 | 4.96580 | 0.3330 | .01510 | .00440 | .00000 | 15.00000 | .02020 | .01000 | .01030 | .00150 |
| .900 | 5.037 | 4.96800 | 0.3110 | .01510 | .00440 | .00970 | 15.00000 | .02020 | .01000 | .01030 | .00150 |
| .900 | 10.027 | 4.96940 | 0.2780 | .01510 | .00440 | .00000 | 15.00000 | .02020 | .01000 | .01030 | .00150 |
| .900 | 15.022 | 4.96940 | .02480 | .01510 | .00440 | .00000 | 15.00000 | .02020 | .01000 | .01030 | .00150 |
| .899 | 18.098 | 4.96630 | 0.2270 | .01510 | .00440 | .00000 | 15.00000 | .02020 | .01000 | .01030 | .00150 |
| .899 | 22.836 | 4.96700 | 0.1960 | .01510 | .00440 | .00970 | 15.00000 | .02020 | .01000 | .01030 | .00150 |
| | GRADIENT | .00003 | -.00107 | -.00000 | .00000 | -.00119 | .00000 | -.00000 | .00000 | .00000 | .00000 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

AMES 118-1-11 OAI45A 01

(C2F015) (01 SEP 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

BETA =
AILRON =
SPOBRK =
RN/L =

ELEVON = .000
BDFLAP = .000
RUDDER = .000

PARAMETRIC DATA

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|-------|----------|--------|--------|---------|--------|----------|---------|--------|--------|---------|---------|
| 1.400 | 4.984 | .03230 | .01750 | -.00310 | .00970 | 40.00000 | -.11640 | .02500 | .01000 | -.00470 | -.00150 |
| 1.393 | 10.096 | .03090 | .01750 | -.00310 | .01940 | 40.00000 | -.11640 | .02500 | .01000 | -.00470 | -.00150 |
| 1.398 | 15.166 | .03810 | .01750 | -.00310 | .00970 | 40.00000 | -.11640 | .02500 | .01000 | -.00470 | -.00150 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 |

RUN NO. 716/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

ALPHA =
AILRON =
SPOBRK =
RN/L =

BETA = 2.000
BDFLAP = .000
RUDDER = .000

PARAMETRIC DATA

| MACH | ELEVON | ALPHA | BETA | AILRON | BDFLAP | SPOBRK | RUDDER | ELV-1B | ELV-0B | AIL-1B | AIL-0B |
|------|----------|---------|---------|---------|--------|----------|---------|-----------|-----------|---------|---------|
| .900 | -30.298 | 5.07880 | 2.19380 | -.34350 | .00970 | 25.00000 | -.11640 | -29.95500 | -30.64200 | -.00320 | -.68380 |
| .903 | -19.743 | 5.22030 | 2.21200 | .23060 | .00970 | 25.00000 | -.12310 | -19.51700 | -19.96900 | .46680 | -.00560 |
| .899 | -17.282 | 5.07640 | 2.22080 | 2.66430 | .00970 | 25.00000 | -.12310 | -19.50100 | -15.06300 | .45070 | 4.87790 |
| .901 | -14.950 | 5.07640 | 2.22310 | .01290 | .00970 | 25.00000 | -.12310 | -14.94500 | -14.95500 | .01150 | .01420 |
| .899 | -9.955 | 5.08030 | 2.23050 | .00740 | .00970 | 25.00000 | -.12310 | -9.94270 | -9.96790 | .00780 | .00690 |
| .899 | -5.945 | 5.08120 | 2.23400 | -.00350 | .00970 | 25.00000 | -.12310 | -5.94490 | -5.94500 | .00110 | -.00800 |
| .900 | -3.939 | 5.07940 | 2.23160 | -.00200 | .00970 | 25.00000 | -.12310 | -3.94120 | -3.93600 | .00190 | -.00600 |
| .901 | -1.942 | 5.08580 | 2.23170 | .00440 | .00970 | 25.00000 | -.12310 | -1.94080 | -1.94430 | .00000 | .00870 |
| .901 | .005 | 5.08670 | 2.23210 | -.00400 | .00970 | 25.00000 | -.12310 | .00500 | .00430 | -.00500 | .00430 |
| .902 | 2.012 | 5.07500 | 2.23200 | -.00210 | .00970 | 25.00000 | -.12310 | 2.02750 | 1.99670 | -.00250 | -.00170 |
| .903 | 4.013 | 5.07210 | 2.23080 | -.01100 | .00970 | 25.00000 | -.12310 | 4.02430 | 4.00180 | -.01260 | -.00930 |
| .901 | 6.006 | 5.08670 | 2.23080 | -.00850 | .00970 | 25.00000 | -.12310 | 6.00910 | 6.00270 | -.01130 | -.00580 |
| .900 | 10.011 | 5.07120 | 2.21930 | -.01550 | .00970 | 25.00000 | -.12310 | 10.01200 | 10.01000 | -.03040 | -.00060 |
| .901 | 15.017 | 5.06370 | 2.20450 | -.02750 | .00970 | 25.00000 | -.12310 | 15.00700 | 15.02800 | -.04270 | -.01230 |
| | GRADIENT | -.00128 | -.00007 | -.00124 | .00000 | .00000 | -.00000 | 1.00209 | .99792 | -.00159 | -.00086 |

RUN NO. 818/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

AMES 118-1-11 OAI45A 01

(C2F016) (08 JUL 77)

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1259

AMES 118-1-11 OAI45A 01

(C2F017) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPOBRK = 7.500 RUDDER = .000
 RN/L = 5.000

RUN NO. 898/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-08 | AIL-08 | AIL-08 |
|------|----------|---------|--------|---------|--------|---------|---------|--------|---------|--------|
| .951 | -5.284 | -.02800 | .01960 | -.00100 | .01940 | 7.50000 | -.08940 | .01430 | -.00470 | .00270 |
| .950 | 2.248 | .00050 | .01960 | -.00100 | .01940 | 7.50000 | -.08940 | .01430 | -.00470 | .00270 |
| .949 | 2.269 | .01200 | .02180 | .00120 | .01940 | 7.50000 | -.08940 | .01850 | -.00470 | .00700 |
| .949 | 4.877 | .04200 | .02180 | .00120 | .02910 | 7.50000 | -.08940 | .01850 | -.00470 | .00700 |
| .949 | 7.959 | .02800 | .02180 | .00120 | .00970 | 7.50000 | -.08270 | .01850 | -.00470 | .00700 |
| .950 | 10.008 | .03460 | .02180 | .00120 | .02910 | 7.50000 | -.06920 | .01850 | -.00470 | .00700 |
| .950 | 12.039 | .03180 | .02390 | .00330 | .01940 | 7.50000 | -.05570 | .02280 | -.00470 | .01120 |
| | GRADIENT | .00811 | .00043 | .00043 | .00190 | .00000 | .00000 | .00082 | .00000 | .00084 |

AMES 118-1-11 OAI45A 01

(C2F018) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = 16.300
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 283/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BOFLAP | SPOBRK | RUDDER | ELV-08 | AIL-08 | AIL-08 |
|------|----------|---------|--------|---------|----------|----------|---------|---------|---------|---------|
| .952 | -5.082 | -.04450 | .01290 | -.00270 | 16.31100 | 25.00000 | .01700 | .00570 | .00030 | -.00570 |
| .952 | 2.483 | .00180 | .01540 | -.00520 | 16.31100 | 25.00000 | .00000 | .00570 | -.00470 | -.00570 |
| .949 | 2.483 | .00980 | .01790 | -.00260 | 16.32100 | 25.00000 | -.01670 | .00570 | .00040 | -.00570 |
| .955 | 5.013 | .04550 | .01550 | -.00020 | 16.31100 | 25.00000 | .01700 | .00570 | .00540 | -.00570 |
| .949 | 6.032 | .05130 | .01500 | -.00060 | 16.31100 | 25.00000 | .00000 | .01000 | .00030 | -.00150 |
| .949 | 7.058 | .05220 | .01500 | -.00060 | 16.32100 | 25.00000 | .00850 | .00430 | .00030 | -.00150 |
| .951 | 8.083 | .05680 | .01220 | .00230 | 16.32100 | 25.00000 | .00850 | .00430 | .00030 | .00430 |
| | GRADIENT | .05457 | .00098 | .00102 | .00394 | -.00000 | -.00658 | -.00000 | .00201 | .00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(C2F019) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = -11.700
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 444/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | AIL-1B | ELV-0B | AIL-0B |
|------|----------|---------|--------|---------|-----------|----------|---------|---------|---------|--------|---------|
| .396 | -4.996 | -.02570 | .01790 | -.00850 | -11.79300 | 25.00000 | -.11640 | .02000 | -.00980 | .01580 | -.00730 |
| .396 | -.716 | -.00020 | .01330 | -.00820 | -11.78300 | 25.00000 | -.11640 | .01500 | -.00480 | .01150 | -.01150 |
| .395 | .029 | .00020 | .02000 | -.00640 | -11.78300 | 25.00000 | -.10960 | .02000 | -.00980 | .02000 | -.00300 |
| .397 | 2.505 | .00140 | .01790 | -.00850 | -11.78300 | 25.00000 | -.09620 | .02000 | -.00980 | .01580 | -.00730 |
| .396 | 5.021 | .03630 | .01790 | -.00850 | -11.78300 | 25.00000 | -.09620 | .02000 | -.00980 | .01580 | -.00730 |
| .396 | 6.904 | .03330 | .01570 | -.01060 | -11.78300 | 25.00000 | -.09620 | .02000 | -.00980 | .01150 | -.01150 |
| .396 | 8.118 | .03810 | .01570 | -.01060 | -11.78300 | 25.00000 | -.08940 | .02000 | -.00980 | .01150 | -.01150 |
| .396 | 10.140 | .04680 | .02920 | -.00290 | -11.79300 | 25.00000 | -.08940 | .02000 | -.00980 | .03850 | -.00400 |
| .396 | 12.182 | .04870 | .02640 | -.00000 | -11.79300 | 25.00000 | -.08940 | .02000 | -.00980 | .03280 | -.00970 |
| .396 | 15.232 | .06510 | .02420 | -.00210 | -11.79300 | 25.00000 | -.08940 | .02000 | -.00980 | .02850 | -.00550 |
| | GRADIENT | .00386 | .00005 | .00006 | .00144 | -.00000 | .00247 | -.00001 | .00001 | .00011 | .00011 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

AMES 118-1-11 OAI45A 01

(C2F0J0) (16 JUL 77)

RUN NO. 419/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | ELEVON | AILRON | BDFLAP | SPDBRK | RUDDER | ELV-1B | AIL-1B | ELV-0B | AIL-0B |
|------|----------|---------|--------|---------|---------|----------|---------|--------|---------|--------|---------|
| .597 | -6.158 | .23700 | .02350 | -.01930 | .00970 | 25.00000 | -.08940 | .01980 | -.01980 | .02720 | -.01870 |
| .597 | -2.082 | .09720 | .02350 | -.01930 | .00970 | 25.00000 | -.08940 | .01980 | -.01980 | .02720 | -.01870 |
| .597 | -1.038 | .06160 | .02600 | -.02170 | .00970 | 25.00000 | -.08940 | .02480 | -.02480 | .02720 | -.01870 |
| .598 | .033 | .04270 | .02600 | -.02170 | .00970 | 25.00000 | -.08940 | .02480 | -.02480 | .02720 | -.01870 |
| .598 | .547 | .03250 | .02350 | -.01930 | .00000 | 25.00000 | -.08940 | .01980 | -.01980 | .02720 | -.01870 |
| .598 | 1.065 | .05260 | .02600 | -.02170 | .00000 | 25.00000 | -.08940 | .01980 | -.01980 | .02720 | -.01870 |
| .598 | 2.120 | .05750 | .02350 | -.01930 | .00000 | 25.00000 | -.08940 | .01980 | -.01980 | .02720 | -.01870 |
| .598 | 3.160 | .06020 | .02850 | -.01920 | .00000 | 25.00000 | -.09620 | .02990 | -.01970 | .02720 | -.01870 |
| .597 | 4.193 | .06150 | .02610 | -.01670 | .00000 | 25.00000 | -.09620 | .02490 | -.01470 | .02720 | -.01870 |
| .597 | 6.250 | .06940 | .02610 | -.01670 | .00000 | 25.00000 | -.10290 | .02490 | -.01470 | .02720 | -.01870 |
| | GRADIENT | -.00281 | .00038 | .00050 | -.00191 | -.00000 | -.00118 | .00076 | .00101 | .00000 | .00000 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1261

AMES 118-1-11 0A145A 01 (INVERTED)

(DEF001) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 1.000

| RUN NO. | | 9/ 0 | RN/L = 5.01 | GRADIENT INTERVAL = -5.00/ 5.00 | | | | |
|---------|----------|---------|-------------|---------------------------------|---------|---------|---------|--------|
| | | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
| MACH | ALPHA | | | | | | | |
| .598 | -9.204 | -.08080 | -.01140 | -.02000 | -.04040 | .06940 | -.02040 | .00000 |
| .601 | -4.942 | -.11110 | -.02280 | -.02000 | -.03030 | .08930 | -.01030 | .00000 |
| .598 | -.058 | -.10100 | -.04550 | -.01000 | -.03030 | .05550 | -.02030 | .00000 |
| .600 | .502 | -.12120 | -.02280 | -.02000 | -.03030 | .09840 | -.01030 | .00000 |
| .597 | 3.229 | -.09090 | -.02280 | -.02000 | -.02020 | .06810 | -.00020 | .00000 |
| .597 | 5.950 | -.11110 | -.03420 | -.01000 | -.04040 | .07700 | -.03040 | .00000 |
| .597 | 8.114 | -.10100 | -.03420 | -.02000 | -.03030 | .06690 | -.01030 | .00000 |
| .597 | 9.200 | -.10100 | -.04550 | -.02000 | -.04040 | .05550 | -.02040 | .00000 |
| .597 | 11.349 | -.11110 | -.03420 | -.02000 | -.03030 | .07700 | -.01030 | .00000 |
| .597 | 13.502 | -.09090 | -.03420 | -.02000 | -.02020 | .06680 | -.00020 | .00000 |
| .597 | 16.650 | -.10100 | -.04550 | -.01000 | -.03030 | .05550 | -.02030 | .00000 |
| .596 | 20.812 | -.09090 | -.02280 | -.03000 | -.04040 | .06810 | -.01040 | .00000 |
| | GRADIENT | .00190 | -.00017 | .00007 | .00103 | -.00207 | .00096 | .00000 |

| RUN NO. | | 10/ 0 | RN/L = 5.03 | GRADIENT INTERVAL = -5.00/ 5.00 | | | | |
|---------|----------|---------|-------------|---------------------------------|---------|--------|---------|--------|
| | | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
| MACH | ALPHA | | | | | | | |
| .800 | -9.447 | -.07070 | -.03420 | -.01000 | -.03030 | .03650 | -.02030 | .00000 |
| .798 | -5.130 | -.07070 | -.02280 | -.01000 | -.02020 | .04790 | -.01020 | .00000 |
| .799 | -.036 | -.10100 | -.02280 | -.01000 | -.02020 | .07820 | -.01020 | .00000 |
| .801 | .492 | -.09090 | -.02280 | -.01000 | -.02020 | .06810 | -.01020 | .00000 |
| .800 | 3.295 | -.09090 | -.01140 | -.01000 | -.04040 | .07950 | -.03040 | .00000 |
| .798 | 6.097 | -.09090 | -.01140 | -.01000 | -.02020 | .07950 | -.01020 | .00000 |
| .800 | 8.320 | -.09090 | -.01140 | -.02000 | -.03030 | .07950 | -.01030 | .00000 |
| .799 | 9.425 | -.09090 | -.01140 | .00000 | -.03030 | .07950 | -.03030 | .00000 |
| .798 | 11.607 | -.08080 | -.01140 | .00000 | -.03030 | .06940 | -.03030 | .00000 |
| .799 | 13.759 | -.09090 | -.02280 | -.02000 | -.03030 | .06810 | -.01030 | .00000 |
| .800 | 16.973 | -.08080 | -.05690 | -.02000 | -.04040 | .02390 | -.02040 | .00000 |
| .799 | 21.145 | -.09090 | -.04550 | -.01000 | -.03030 | .04540 | -.02030 | .00000 |
| | GRADIENT | .00203 | .00364 | .00000 | -.00644 | .00161 | -.00644 | .00000 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

AMES 118-1-11 0A145A 01(INVERTED)

(DEF001) (18 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 11/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|---------|---------|--------|
| .901 | -9.577 | -1.0100 | -0.2280 | .00000 | -.03030 | .07820 | -.03030 | .00000 |
| .899 | -5.230 | -.09090 | -.02280 | .00000 | -.03030 | .06810 | -.03030 | .00000 |
| .901 | -.020 | -.09090 | -.03420 | .00000 | -.04040 | .05680 | -.04040 | .00000 |
| .902 | .515 | -.09090 | -.02280 | .00000 | -.03030 | .06810 | -.03030 | .00000 |
| .902 | 3.360 | -.09090 | -.03420 | .00000 | -.03030 | .05680 | -.03030 | .00000 |
| .899 | 6.153 | -1.0100 | -.04550 | .00000 | -.03030 | .05550 | -.03030 | .00000 |
| .901 | 8.361 | -.09090 | -.04550 | -.01000 | -.03030 | .04540 | -.02030 | .00000 |
| .899 | 9.468 | -1.0100 | -.05690 | -.01000 | -.03030 | .04410 | -.02030 | .00000 |
| .900 | 11.686 | -.09090 | -.04550 | -.01000 | -.03030 | .04540 | -.03040 | .00000 |
| .902 | 13.876 | -1.0100 | -.04550 | -.01000 | -.04040 | .05550 | -.03040 | .00000 |
| .902 | 17.074 | -.09090 | -.03420 | .00000 | -.04040 | .05680 | -.04040 | .00000 |
| .902 | 21.264 | -.08080 | -.04550 | .00000 | -.03030 | .03530 | -.03030 | .00000 |
| | GRADIENT | .00000 | -.00133 | .00000 | .00200 | -.00132 | .00200 | .00000 |

RUN NO. 12/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|---------|---------|---------|
| .947 | -9.641 | -.09090 | -.02280 | .00000 | -.03030 | .06810 | -.03030 | .00000 |
| .951 | -5.285 | -1.0100 | -.03420 | .00000 | -.04040 | .06690 | -.04040 | .00000 |
| .953 | -.014 | -1.0100 | -.02280 | .00000 | -.03030 | .07820 | -.03030 | .00000 |
| .953 | .526 | -1.2120 | -.05690 | .00000 | -.04040 | .06430 | -.04040 | .00000 |
| .951 | 3.400 | -1.0100 | -.03420 | .00000 | -.04040 | .06690 | -.04040 | .00000 |
| .950 | 6.232 | -1.1110 | -.03420 | .00000 | -.04040 | .07700 | -.04040 | .00000 |
| .950 | 8.450 | -.09090 | -.03420 | .00000 | -.04040 | .05680 | -.04040 | .00000 |
| .950 | 9.567 | -.08080 | -.02280 | -.01000 | -.02020 | .05800 | -.01020 | .00000 |
| .951 | 11.786 | -.09090 | -.02280 | -.01000 | -.03030 | .06810 | -.02030 | .00000 |
| .952 | 13.975 | -1.1110 | -.02280 | -.01000 | -.03030 | .08830 | -.02030 | .00000 |
| .950 | 17.175 | -1.1110 | -.03420 | .00000 | -.03030 | .07700 | -.03030 | -.01020 |
| | GRADIENT | .00233 | .00039 | .00000 | -.00198 | -.00191 | -.00198 | .00000 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

(02F001) (16 JUL 77)

AMES 118-1-11 0A145A 01(INVERTED)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8100 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 16/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|---------|---------|---------|---------|---------|---------|
| 1.050 | -9.693 | .08080 | .00000 | .00000 | -.03030 | .08080 | -.03030 | -.02040 |
| 1.049 | -5.289 | .11110 | .03420 | .00000 | -.04040 | .07700 | -.04040 | -.02040 |
| 1.050 | .009 | .11110 | .03420 | .00000 | -.04040 | .07700 | -.04040 | -.02040 |
| 1.050 | .550 | .12120 | .01140 | .01150 | -.03030 | .10980 | -.04180 | -.02040 |
| 1.050 | 3.448 | .12120 | .03420 | .00000 | -.03030 | .08710 | -.03030 | -.02040 |
| 1.048 | 6.321 | .11110 | .01140 | .00000 | -.02020 | .09970 | -.02020 | -.02040 |
| 1.050 | 8.584 | .11110 | .01140 | .00000 | -.02020 | .09970 | -.02020 | -.02040 |
| 1.050 | 9.715 | .09090 | .03420 | .00000 | -.05050 | .05680 | -.05050 | -.02040 |
| 1.050 | 11.970 | .09090 | .04550 | .00000 | -.03030 | .04540 | -.03030 | -.02040 |
| 1.050 | 14.188 | .09090 | .05650 | -.01000 | -.04040 | .03400 | -.03040 | -.02040 |
| 1.049 | 17.445 | .08080 | .04550 | .00000 | -.03030 | .03530 | -.03030 | -.02040 |
| GRADIENT | | -.00196 | -.00262 | -.00132 | .00196 | -.00065 | .00328 | .00000 |

RUN NO. 15/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|---------|---------|---------|--------|---------|---------|
| 1.102 | -9.726 | .10100 | .00000 | .01000 | -.03030 | .10100 | -.02030 | -.02040 |
| 1.099 | -5.318 | .10100 | .02280 | -.01000 | -.03030 | .07820 | -.02030 | -.03060 |
| 1.101 | .022 | .10100 | .03420 | .00000 | -.02020 | .06690 | -.02020 | -.02040 |
| 1.100 | .571 | .09090 | .02280 | -.01000 | -.03030 | .06810 | -.02030 | -.03060 |
| 1.102 | 3.475 | .12120 | .03420 | .00000 | -.03030 | .08710 | -.03030 | -.02040 |
| 1.098 | 6.351 | .08080 | .04550 | .00000 | -.03030 | .03530 | -.03030 | -.02040 |
| 1.100 | 8.613 | .10100 | .02280 | .00000 | -.03030 | .07820 | -.00030 | -.02040 |
| 1.099 | 9.758 | .11110 | .01140 | .00000 | -.03030 | .09970 | -.03030 | -.02040 |
| 1.101 | 12.020 | .11110 | .03420 | .00000 | -.03030 | .07700 | -.03030 | -.02040 |
| 1.099 | 14.253 | .09090 | .02280 | .00000 | -.02020 | .06810 | -.02020 | -.02040 |
| 1.102 | 17.561 | .11110 | .06830 | -.01000 | -.02020 | .04280 | -.01020 | -.02040 |
| GRADIENT | | -.00737 | -.00130 | .00114 | -.00196 | .00608 | -.00310 | .00116 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(02F001) (16 JUL 77)

AMES 118-1-11 OAI45A 01(INVERTED)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

| RUN NO. | 14/ 0 | RN/L = 5.01 | GRADIENT INTERVAL = | -5.00/ 5.00 |
|----------|--------|-------------|---------------------|-------------|
| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO |
| 1.199 | -9.706 | -.09090 | -.02280 | .00000 |
| 1.196 | -5.288 | -.08080 | -.03420 | .00000 |
| 1.201 | .033 | -.09090 | -.02280 | -.01000 |
| 1.201 | .583 | -.11110 | -.02280 | -.03030 |
| 1.197 | 3.469 | -.08080 | -.01140 | .01150 |
| 1.198 | 6.347 | -.08080 | -.04550 | .00000 |
| 1.197 | 8.618 | -.10100 | -.03420 | .00000 |
| 1.200 | 9.762 | -.09090 | -.02280 | -.01000 |
| 1.198 | 12.024 | -.10100 | -.04550 | -.02020 |
| 1.200 | 14.264 | -.13130 | -.06830 | -.03030 |
| 1.198 | 17.549 | -.07070 | -.03420 | -.01000 |
| GRADIENT | | .00543 | .00353 | .00419 |
| | | | | .00394 |

| RUN NO. | 13/ 0 | RN/L = 4.99 | GRADIENT INTERVAL = | -5.00/ 5.00 |
|----------|--------|-------------|---------------------|-------------|
| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO |
| 1.294 | -9.665 | -.10100 | .00000 | .00000 |
| 1.299 | -5.223 | -.10100 | -.02280 | .00000 |
| 1.302 | .042 | -.10100 | -.02280 | .00000 |
| 1.299 | .587 | -.10100 | -.03420 | .00000 |
| 1.295 | 3.461 | -.09090 | -.04550 | .00000 |
| 1.295 | 6.327 | -.08080 | -.04550 | -.01000 |
| 1.294 | 8.600 | -.07070 | -.04550 | .00000 |
| 1.295 | 9.743 | -.08080 | -.04550 | .00000 |
| 1.294 | 12.010 | -.12120 | -.03420 | .00000 |
| 1.293 | 14.243 | -.10100 | -.04550 | .00000 |
| 1.294 | 17.514 | -.09090 | -.02280 | -.01000 |
| GRADIENT | | .00314 | -.00574 | .00000 |
| | | | | .00000 |

| DELL | DELR | DRHL |
|---------|---------|---------|
| .06810 | -.04040 | -.02040 |
| .04660 | -.03030 | -.03060 |
| .06810 | -.04050 | -.02040 |
| .08830 | -.04180 | -.02040 |
| .06940 | -.04180 | -.03060 |
| .03530 | -.02020 | -.03060 |
| .06690 | -.02020 | -.03060 |
| .06810 | -.01020 | -.03060 |
| .05550 | -.01020 | -.03060 |
| .06300 | -.03030 | -.02040 |
| .03650 | -.02030 | -.02040 |
| -.00191 | -.00025 | -.00315 |

| DELL | DELR | DRHL |
|---------|---------|---------|
| .10100 | -.03030 | -.03060 |
| .07820 | -.03030 | -.03060 |
| .07820 | -.04040 | -.02040 |
| .06690 | -.04040 | -.03060 |
| .04540 | -.04040 | -.03060 |
| .03530 | -.02030 | -.03060 |
| .02520 | -.03030 | -.03060 |
| .03530 | -.03030 | -.03060 |
| .08710 | -.03030 | -.03060 |
| .05550 | -.03030 | -.02040 |
| .06810 | -.03040 | -.02040 |
| -.00890 | .00000 | -.00200 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01(PHI=90)

(02F002) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 25/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|--------|--------|---------|
| .597 | -9.559 | -.10100 | .00000 | -.31000 | -.03030 | .10100 | .27970 | .02080 |
| .597 | -7.589 | -.08080 | -.02280 | -.31000 | -.02020 | .05800 | .28980 | .03110 |
| .597 | -5.551 | -.09090 | -.02280 | -.33000 | -.02020 | .06810 | .30980 | .02080 |
| .597 | -1.435 | -.09090 | -.03420 | -.33000 | -.03030 | .05880 | .29970 | .00000 |
| .598 | -.423 | -.09090 | -.03420 | -.31000 | -.03030 | .05680 | .27970 | .01040 |
| .601 | .641 | -.09090 | -.01140 | -.30000 | -.02020 | .07950 | .27980 | .00000 |
| .597 | 1.609 | -.09090 | -.03420 | -.30000 | -.01010 | .05680 | .28990 | .00000 |
| .597 | 2.629 | -.09090 | -.03420 | -.32000 | -.01010 | .05680 | .30990 | .00000 |
| .597 | 3.642 | -.10100 | -.03420 | -.30000 | -.02020 | .06690 | .27980 | .00000 |
| .597 | 4.626 | -.10100 | -.03420 | -.36000 | .00000 | .06690 | .36000 | .00000 |
| .597 | 6.649 | -.11110 | -.03420 | -.32000 | .00000 | .07700 | .32000 | .00000 |
| .597 | 8.681 | -.11110 | -.02280 | -.34000 | .00000 | .08830 | .34000 | -.01020 |
| .597 | 10.701 | -.11110 | -.02280 | -.34000 | .00000 | .08830 | .34000 | -.02040 |
| .597 | 13.540 | -.11110 | -.01140 | -.33000 | .00000 | .09970 | .33000 | -.02040 |
| .593 | GRADIENT | -.00178 | -.00077 | -.00312 | .00423 | .00101 | .00740 | -.00074 |

RUN NO. 24/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|---------|--------|---------|
| .798 | -9.628 | -.09090 | -.02280 | -.25000 | .00000 | .06810 | .25000 | .05190 |
| .798 | -7.646 | -.08080 | -.02280 | -.27000 | .00000 | .05800 | .27000 | .04150 |
| .798 | -5.596 | -.09090 | -.02280 | -.26000 | .00000 | .06810 | .26000 | .02080 |
| .798 | -1.449 | -.10100 | -.02280 | -.29000 | .00000 | .07820 | .29000 | .00000 |
| .798 | .646 | -.08080 | .00000 | -.28000 | .00000 | .06800 | .28000 | .00000 |
| .797 | 1.621 | -.06060 | -.02280 | -.23000 | -.01010 | .05800 | .21990 | .00000 |
| .797 | 2.649 | -.08080 | -.04550 | -.28000 | .00000 | .06400 | .28000 | .00000 |
| .797 | 3.670 | -.07070 | -.01140 | -.30000 | -.01010 | .03530 | .28990 | .00000 |
| .797 | 4.663 | -.07070 | -.01140 | -.30000 | -.01010 | .05930 | .30990 | .00000 |
| .798 | 6.699 | -.08080 | -.02280 | -.31000 | -.01010 | .05800 | .28990 | -.01020 |
| .796 | 8.742 | -.08080 | -.04550 | -.37000 | -.01010 | .05800 | .29990 | -.02040 |
| .796 | 10.774 | -.05050 | -.03420 | -.28000 | -.01010 | .05330 | .25990 | -.02040 |
| .796 | GRADIENT | .00390 | -.00041 | -.00623 | -.00178 | -.00431 | .00445 | -.00326 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1266

AMES 118-1-11 0A145A 01(PH1=90)

(DEF002) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 23/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|---------|--------|---------|
| .901 | -9.665 | -.10100 | -.03420 | -.25000 | -.02020 | .08590 | .22980 | -.03060 |
| .899 | -7.677 | -.11110 | -.03420 | -.25000 | -.02020 | .07700 | .22980 | -.04080 |
| .902 | -5.619 | -.11110 | -.02280 | -.25000 | .00000 | .08830 | .25000 | -.04080 |
| .902 | -1.454 | -.12120 | -.01140 | -.22000 | -.01010 | .10980 | .20990 | -.06110 |
| .902 | -.428 | -.09090 | -.01140 | -.22000 | -.02020 | .07950 | .19980 | -.07130 |
| .901 | .648 | -.11110 | -.01140 | -.24000 | -.01010 | .09970 | .22990 | -.04080 |
| .901 | 1.628 | -.08080 | -.01140 | -.24000 | .03030 | .06940 | .20970 | .00000 |
| .901 | 2.660 | -.10100 | -.02280 | -.26000 | -.02020 | .07820 | .23980 | -.01020 |
| .900 | 3.687 | -.11110 | -.03420 | -.25000 | .02020 | .07700 | .22980 | -.02040 |
| .893 | 4.681 | -.11110 | -.03420 | -.24000 | .02020 | .07700 | .21980 | -.02040 |
| .901 | 6.727 | -.09090 | -.03420 | -.24000 | -.01010 | .05680 | .22990 | -.03060 |
| .901 | 8.776 | -.08080 | -.04550 | -.21000 | -.02020 | .03530 | .18980 | -.04080 |
| .900 | 10.815 | -.08080 | -.04550 | -.21000 | -.02020 | .03530 | .18980 | -.04080 |
| .899 | 13.675 | -.08080 | -.04550 | -.21000 | -.02020 | .03530 | .18980 | -.02040 |
| | GRADIENT | -.00001 | -.00437 | -.00491 | -.00140 | -.00435 | .00351 | .00890 |

RUN NO. 22/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|---------|--------|---------|
| .948 | -9.670 | -.10100 | -.02280 | -.26000 | -.01010 | .07820 | .24990 | .11420 |
| .953 | -7.680 | -.11110 | .00000 | -.23000 | -.01010 | .11110 | .21990 | .00000 |
| .950 | -5.617 | -.09090 | .00000 | -.24000 | -.02020 | .09090 | .21980 | .00000 |
| .953 | -1.451 | -.09090 | -.03420 | -.22000 | -.02020 | .05680 | .19980 | -.04080 |
| .951 | -.428 | -.09090 | -.02280 | -.21000 | -.02020 | .06810 | .18980 | -.04080 |
| .951 | .646 | -.09090 | .00000 | -.25000 | .00000 | .09090 | .25000 | .01040 |
| .950 | 1.625 | -.09090 | -.01140 | -.24000 | .00000 | .07950 | .24000 | -.03060 |
| .950 | 2.656 | -.09090 | -.02280 | -.23000 | -.01010 | .06810 | .21990 | -.03060 |
| .950 | 3.684 | -.10100 | -.04550 | -.23000 | -.02020 | .05550 | .20980 | -.04080 |
| .949 | 4.680 | -.09090 | -.04550 | -.21000 | -.01010 | .04540 | .19990 | -.03060 |
| .951 | 6.731 | -.10100 | -.04550 | -.23000 | -.02020 | .05550 | .20980 | -.03060 |
| .951 | 8.782 | -.07070 | -.02280 | -.22000 | .00000 | .04790 | .22000 | -.01020 |
| .950 | 10.823 | -.10100 | .00000 | -.21000 | -.01010 | .10100 | .19990 | .10380 |
| .947 | 13.691 | -.09090 | -.02280 | -.25000 | -.01010 | .06810 | .23990 | .15570 |
| | GRADIENT | -.00071 | -.00353 | .00030 | .00072 | -.00283 | .00042 | -.00065 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1267

AMES 118-1-11 0A145A 01(PHI=90)

102F002) (16 JUL 77)

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = .000 ELEVON = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BOFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDBRK = 25.000 RUDDER = .000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 21/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|---------|---------|--------|--------|---------|
| 1.045 | -9.679 | -1.1110 | -0.1140 | -0.3000 | -0.1010 | .09370 | .01990 | -.08150 |
| 1.050 | -7.681 | -1.1110 | -0.1140 | -0.2000 | -0.1010 | .09370 | .00990 | -.04080 |
| 1.051 | -5.618 | -0.8080 | .00000 | -0.3000 | -0.2020 | .08080 | .00980 | -.04080 |
| 1.052 | -1.456 | -0.7070 | .00000 | -3.1000 | .00000 | .07070 | .31000 | -.05100 |
| 1.050 | -.430 | -.09090 | .00000 | -3.3000 | -0.2020 | .09090 | .30980 | -.05100 |
| 1.048 | .646 | -1.0100 | .00000 | -0.3000 | -0.2020 | .10100 | .00980 | .00000 |
| 1.049 | 1.628 | -1.0100 | -0.1140 | -2.6000 | .00000 | .08960 | .26000 | -.05100 |
| 1.050 | 2.660 | -0.7070 | -0.3420 | -2.8000 | .00000 | .03650 | .28000 | -.03060 |
| 1.048 | 3.684 | -1.0100 | -0.1140 | -3.0000 | .00000 | .08960 | .30000 | -.02040 |
| 1.049 | 4.681 | -1.0100 | .00000 | -3.3000 | -0.3030 | .10100 | .29970 | .00000 |
| 1.047 | 6.730 | -1.0100 | .00000 | -3.1000 | -0.3030 | .10100 | .27970 | .00000 |
| 1.047 | 8.788 | -1.0100 | -0.3420 | -3.2000 | -0.2020 | .06690 | .29980 | .05190 |
| 1.047 | 10.840 | -1.0100 | -0.2280 | -2.9000 | -0.2020 | .07820 | .26980 | .17650 |
| 1.048 | 13.721 | -1.0100 | -0.3420 | -2.8000 | -0.2020 | .06690 | .25980 | .50880 |
| | GRADIENT | -.00284 | -.00200 | -.00832 | -.00105 | .00084 | .00727 | .00645 |

RUN NO. 20/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|---------|---------|---------|--------|---------|
| 1.097 | -9.678 | -1.1010 | -0.2280 | -2.7000 | -0.3030 | .07820 | .23970 | .00000 |
| 1.103 | -7.684 | -0.9090 | -0.1140 | -1.6000 | -0.1010 | .07950 | .14990 | .00000 |
| 1.104 | -5.620 | -1.0100 | -0.2280 | -1.5000 | .00000 | .07820 | .16000 | .04150 |
| 1.103 | -1.455 | -1.0100 | -0.1140 | -1.4000 | .00000 | .08960 | .14000 | .11420 |
| 1.101 | -.429 | -1.0100 | -0.1140 | -1.3000 | .00000 | .08960 | .13000 | .12460 |
| 1.101 | .647 | -1.1110 | .00000 | -2.2000 | .00000 | .11110 | .22000 | -.03060 |
| 1.101 | 1.628 | -1.0100 | -0.2280 | -1.9000 | -0.1010 | .07820 | .17990 | .00000 |
| 1.100 | 2.659 | -1.0100 | -0.2280 | -2.4000 | .00000 | .07820 | .24000 | .00000 |
| 1.101 | 3.689 | -1.0100 | -0.4550 | -2.3000 | -0.1010 | .05550 | .21990 | .01020 |
| 1.100 | 4.685 | -1.0100 | -0.4550 | -2.4000 | .00000 | .05550 | .24000 | -.01020 |
| 1.100 | 6.734 | -0.9090 | -0.3420 | -2.8000 | -0.1010 | .05680 | .26990 | -.03060 |
| 1.098 | 8.790 | -1.1110 | -0.1140 | -2.9000 | -0.1010 | .09370 | .27990 | -.04080 |
| 1.100 | 10.842 | -1.0100 | -0.1140 | -0.5000 | .00000 | .08960 | .05000 | -.06110 |
| 1.099 | 13.728 | -0.9090 | -0.1140 | -0.4000 | -0.1010 | .07950 | .02990 | .00000 |
| | GRADIENT | .00034 | -.00672 | -.01822 | -.00071 | -.00706 | .01751 | -.02151 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

AMES 118-1-11 0A145A 01(PH1=90)

(D2F002) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

ALPHA = .000 ELEVON = .000
AILRON = .000 BOFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

PARAMETRIC DATA

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|---------|---------|--------|---------|---------|
| 1.200 | -9.692 | -.08080 | -.02280 | -.29000 | .00000 | .05800 | .29000 | -.01020 |
| 1.200 | -7.692 | -.10100 | .00000 | -.31000 | .00000 | .10100 | .31000 | -.02040 |
| 1.200 | -5.625 | -.08080 | .00000 | -.27000 | -.02020 | .08080 | .24980 | -.02040 |
| 1.201 | -1.458 | -.09090 | -.02280 | -.28000 | -.01010 | .06810 | .26990 | -.04080 |
| 1.200 | -.437 | -.08080 | -.02280 | -.25000 | .00000 | .05800 | .25000 | -.05100 |
| 1.200 | .639 | -.08080 | .00000 | -.09000 | .00000 | .08080 | .09000 | -.02040 |
| 1.199 | 1.618 | -.08080 | -.04550 | -.29000 | .00000 | .03530 | .29000 | -.05100 |
| 1.198 | 2.650 | -.08080 | .00000 | -.26000 | -.01010 | .06940 | .27990 | -.06110 |
| 1.199 | 3.682 | -.08080 | .00000 | -.04000 | .00000 | .08080 | .24990 | -.06110 |
| 1.198 | 4.683 | -.08080 | .00000 | -.04000 | .00000 | .06940 | .04000 | -.06110 |
| 1.198 | 6.740 | -.08080 | -.01140 | -.04000 | .00000 | .05800 | .02990 | -.05100 |
| 1.198 | 8.806 | -.08080 | -.02280 | -.04000 | -.02020 | .06810 | .01980 | -.04150 |
| 1.197 | 10.866 | -.09090 | -.02280 | -.04000 | -.03030 | .06810 | .05970 | -.02040 |
| 1.198 | 13.761 | -.09090 | .00361 | -.01756 | .00000 | .00255 | -.01756 | -.00386 |
| | GRADIENT | .00106 | | | | | | |

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|---------|---------|--------|---------|---------|
| 1.294 | -9.714 | -.09090 | -.02280 | .00000 | -.02020 | .06810 | -.02020 | -.06110 |
| 1.296 | -7.715 | -.09090 | -.01140 | .00000 | -.01010 | .07950 | -.01010 | -.07130 |
| 1.297 | -5.644 | -.10100 | -.02280 | .00000 | -.01010 | .07820 | -.01010 | -.08150 |
| 1.297 | -1.465 | -.08080 | -.02280 | .00000 | .00000 | .05800 | .00000 | -.09170 |
| 1.296 | -.439 | -.09090 | -.02280 | .00000 | -.01010 | .05810 | -.01010 | -.07130 |
| 1.299 | .612 | -.09090 | -.01140 | .00000 | -.01010 | .07950 | -.02030 | .00000 |
| 1.296 | 1.622 | -.09090 | .00000 | -.01000 | -.03030 | .07950 | .02030 | .00000 |
| 1.296 | 2.655 | -.09090 | -.02280 | .00000 | -.03030 | .06810 | -.00010 | .00000 |
| 1.295 | 3.689 | -.09090 | .00000 | .01000 | -.01010 | .06810 | .00010 | .01040 |
| 1.294 | 4.691 | -.08080 | -.01140 | -.01000 | -.02020 | .06940 | -.01020 | .02080 |
| 1.294 | 6.751 | -.10100 | -.03420 | .00000 | -.03030 | .06590 | -.03030 | .04150 |
| 1.293 | 8.820 | -.08080 | -.02280 | -.03000 | -.01010 | .05800 | .01990 | .13500 |
| 1.292 | 10.889 | -.07070 | -.02280 | -.03000 | -.02020 | .04790 | .00980 | -.02040 |
| 1.296 | 13.834 | -.09090 | -.03420 | -.14000 | -.01010 | .05680 | .12990 | -.03060 |
| | GRADIENT | -.00001 | .00079 | -.00174 | -.00281 | .00080 | -.00107 | .01744 |

OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01(PHI=90)

DATE 10 MAR 80

(02F003) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 ELEVON = .000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BOFLAP = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPOBRK = 25.000 RUDDER = .000
SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 26/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| .596 | -9.713 | -.08080 | -.03420 | -.07000 | -.01010 | .04660 | .05990 | .01040 |
| .597 | -7.763 | -.08080 | -.02280 | -.39000 | .00000 | .05800 | .39000 | .02080 |
| .597 | -5.730 | -.07070 | -.02280 | -.37000 | .00000 | .04790 | .37000 | .01040 |
| .597 | -1.628 | -.08080 | -.01140 | -.37000 | .00000 | .06940 | .37000 | .00000 |
| .597 | -.616 | -.06060 | -.02280 | -.35000 | .00000 | .03780 | .35000 | .00000 |
| .597 | .435 | -.08080 | -.03420 | -.06000 | .00000 | .04660 | .06000 | .01040 |
| .597 | 1.458 | -.07070 | -.01140 | -.07000 | .00000 | .05930 | .07000 | .00000 |
| .597 | 2.507 | -.09090 | -.02280 | -.06000 | .00000 | .06810 | .06000 | .00000 |
| .597 | 3.567 | -.07070 | -.03420 | -.04000 | -.01010 | .03650 | .02990 | .00000 |
| .597 | 4.577 | -.07070 | -.03420 | -.03000 | -.01010 | .03650 | .01990 | .00000 |
| .597 | 6.664 | -.07070 | -.03420 | -.03000 | -.01010 | .03650 | .00030 | .00000 |
| .596 | 8.738 | -.07070 | -.03420 | -.03000 | -.03030 | .03650 | -.00030 | .00000 |
| .596 | 10.798 | -.07070 | -.03420 | -.05000 | -.03030 | .03650 | .01970 | -.02040 |
| .596 | 13.741 | -.09090 | -.02280 | -.04000 | -.03030 | .06810 | .00970 | -.02040 |
| GRADIENT | -.00001 | -.00275 | -.00275 | .05644 | -.00174 | -.00274 | -.05818 | -.00036 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1270

AMES 118-1-11 0A145A 01

(02F004) (16 JUL 77)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO BETA = .000 ELEVON = .000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BDFLAP = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDBRK = 25.000 RUDDER = .000
SCALE = .0500 RN/L = 5.000

RUN NO. 43/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|--------|---------|--------|
| .596 | -10.535 | -.08080 | .00000 | .00000 | .00000 | .08080 | .00000 | .02080 |
| .597 | -6.436 | -.08080 | .00000 | .00000 | .00000 | .08080 | .00000 | .02080 |
| .597 | -1.140 | -.08080 | -.01140 | .00000 | -.01010 | .06940 | -.01010 | .02080 |
| .599 | .027 | -.09090 | .00000 | .00000 | .00000 | .09090 | .00000 | .02080 |
| .597 | 1.534 | -.08080 | -.01140 | -.01000 | .00000 | .06940 | .01000 | .02080 |
| .598 | 4.227 | -.09090 | .00000 | .00000 | .00000 | .09090 | .00000 | .02080 |
| .598 | 6.423 | -.07070 | .00000 | .00000 | .00000 | .07070 | .00000 | .02080 |
| .598 | 7.531 | -.08080 | .00000 | .00000 | .00000 | .08080 | .00000 | .02080 |
| .598 | 9.749 | -.09090 | -.01140 | .00000 | -.01010 | .07950 | -.01010 | .02080 |
| .597 | 11.948 | -.07070 | .00000 | .00000 | .00000 | .05930 | -.01010 | .02080 |
| .598 | 15.208 | -.08080 | -.02280 | .00000 | .00000 | .05800 | .00000 | .02080 |
| .598 | 19.879 | -.06060 | -.01140 | .00000 | .00000 | .04920 | .00000 | .02080 |
| .598 | GRADIENT | -.00121 | .00136 | -.00023 | .00144 | .00257 | .00167 | .00000 |

RUN NO. 35/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|---------|---------|---------|
| .899 | -10.960 | -.05050 | -.03420 | -.01000 | -.02020 | .01630 | -.01020 | -.01020 |
| .900 | -6.723 | -.10100 | -.02280 | -.01000 | -.03030 | .07820 | -.02030 | -.01020 |
| .898 | -1.193 | -.10100 | -.04550 | -.01000 | -.02020 | .05550 | -.01020 | -.01020 |
| .900 | .037 | -.11110 | -.02280 | .00000 | -.03030 | .08830 | -.03030 | -.01020 |
| .901 | 1.615 | -.10100 | -.04550 | -.01000 | -.02020 | .05550 | -.01020 | -.01020 |
| .900 | 4.397 | -.10100 | -.04550 | .00000 | -.02020 | .05550 | -.02020 | -.01020 |
| .899 | 6.670 | -.09090 | -.03420 | .00000 | .00000 | .05680 | .00000 | -.01020 |
| .899 | 7.799 | -.10100 | -.04550 | .00000 | -.02020 | .05550 | -.02020 | -.02040 |
| .898 | 10.048 | -.12120 | -.03420 | .00000 | -.01010 | .08710 | -.01010 | -.02040 |
| .902 | 12.319 | -.09090 | -.04550 | .00000 | -.04040 | .04540 | -.04040 | -.01020 |
| .901 | 15.627 | -.10100 | -.03420 | .00000 | -.07070 | .06690 | -.07070 | .00000 |
| .899 | 19.964 | -.09090 | -.04550 | .00000 | -.05050 | .04540 | -.05050 | -.03060 |
| .899 | GRADIENT | .00068 | -.00153 | .00115 | .00068 | -.00221 | -.00047 | -.00000 |

DATE 10 MAR 80

OA145 TABULATED FORCE DATA

PAGE 1271

AMES 118-1-11 OA145A 01

(02F004) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPOBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 29/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|--------|--------|---------|---------|
| 1.198 | -11.013 | -11110 | -01140 | -02000 | -01010 | .09970 | .00990 | .01040 |
| 1.202 | -6.751 | -12120 | -01140 | -02000 | -02020 | .10980 | -.07020 | .00000 |
| 1.197 | -1.139 | -10100 | -02280 | -01000 | -03030 | .07820 | -.02030 | .01040 |
| 1.199 | .033 | -10100 | -03420 | -01000 | -02020 | .06690 | -.01020 | .00000 |
| 1.199 | 1.700 | -10100 | -02280 | .00000 | -03030 | .07820 | -.03030 | .00000 |
| 1.199 | 4.549 | -11110 | -03420 | -02000 | -03030 | .07700 | -.01030 | .00000 |
| 1.200 | 6.872 | -10100 | -03420 | -01000 | -05050 | .06690 | -.04050 | .01040 |
| 1.199 | 8.017 | -10100 | -03420 | -02000 | -03030 | .06690 | -.01030 | .01040 |
| 1.199 | 10.316 | -10100 | -04550 | -01000 | -04040 | .05550 | -.03040 | .01040 |
| 1.200 | 12.626 | -10100 | -02280 | -01000 | -04040 | .07820 | -.03040 | .01040 |
| 1.198 | 16.016 | -11110 | -02280 | -01000 | -03030 | .08830 | -.02030 | .01040 |
| 1.198 | 20.408 | -10100 | -02280 | -02000 | -04040 | .07820 | -.02040 | .01040 |
| 1.195 | GRADIENT | -00180 | -00125 | -00156 | -00069 | .00056 | .00087 | -.00138 |

AMES 118-1-11 OA145A 01

REFERENCE DATA

| | | | | | | | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|--------|--------|---|--------|--------|---|------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. X0 | ALPHA | = | .000 | ELEVON | = | .000 |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. Y0 | AILRON | = | .000 | BDFLAP | = | .000 |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. Z0 | SPDBRK | = | 25.000 | RUDDER | = | .000 |
| SCALE | = | .0500 | | | | | | RN/L | = | 5.000 | | | |

| Run No. | 44/ 0 | RN/L | 5.01 | GRADIENT | INTERVAL | -5.00/ | 5.00 | DEL R | DEL R | DRHL |
|---------|--------|---------|---------|----------|----------|--------|--------|-------|-------|---------|
| MACH | BETA | ELV-L0 | ELV-L1 | ELV-R0 | ELV-R1 | DELL | DELR | | | |
| 598 | -7.203 | -.07070 | -.01140 | .00000 | .00000 | .05930 | .00000 | | | .03110 |
| 598 | -6.231 | -.09090 | -.01140 | .00000 | .00000 | .07950 | .00000 | | | .04150 |
| 598 | -5.218 | -.11110 | -.01140 | .00000 | .00000 | .09970 | .00000 | | | .04150 |
| 598 | -2.114 | -.11110 | -.01140 | .00000 | .00000 | .09970 | .00000 | | | .04150 |
| 598 | -1.068 | -.11110 | -.01140 | .00000 | .00000 | .09970 | .00000 | | | .02080 |
| 599 | -.018 | -.06060 | -.01140 | .00000 | .00000 | .04920 | .00000 | | | .02080 |
| 598 | .519 | -.10100 | .00000 | .00000 | .00000 | .10100 | .00000 | | | .01040 |
| 598 | 1.036 | -.09090 | .00000 | .00000 | .00000 | .09090 | .00000 | | | .02080 |
| 598 | 2.092 | -.09090 | -.01140 | .00000 | .00000 | .07950 | .00000 | | | .01040 |
| 598 | 3.132 | -.09090 | .00000 | .00000 | .00000 | .09090 | .00000 | | | .00000 |
| 597 | 4.165 | -.09090 | -.02280 | .00000 | .00000 | .06810 | .00000 | | | .00000 |
| 597 | 6.232 | -.09090 | .00000 | .00000 | .00000 | .09090 | .00000 | | | .00000 |
| 597 | 7.247 | -.09090 | .00000 | .00000 | .00000 | .09090 | .00000 | | | .00000 |
| 597 | | -.09090 | .00000 | .00000 | .00000 | .09090 | .00000 | | | .00000 |
| 597 | | | .00000 | .00000 | .00000 | .00304 | .00000 | | | -.00516 |

| MACH | BETA | ELV-L0 | ELV-L1 | ELV-R0 | ELV-R1 | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|---------|---------|---------|
| .901 | -7.264 | -.08080 | -.03420 | -.01000 | -.02020 | .04660 | -.01020 | .03110 |
| .901 | -6.285 | -.09090 | -.02880 | .00000 | -.02020 | .06810 | -.01020 | .03110 |
| .902 | -5.279 | -.09090 | -.02880 | -.01000 | -.02020 | .06810 | -.01020 | .02080 |
| .902 | -2.147 | -.09090 | -.02880 | .00000 | -.02020 | .05810 | -.02020 | .02080 |
| .902 | -1.084 | -.09090 | -.03420 | .00000 | -.02020 | .05680 | -.02020 | .01040 |
| .901 | -.019 | -.08080 | -.04550 | .00000 | -.09090 | .03530 | -.09090 | .00000 |
| .900 | .533 | -.09090 | -.03420 | .00000 | -.01010 | .05680 | -.01010 | .02080 |
| .902 | 1.062 | -.09090 | -.03420 | .00000 | -.02020 | .05680 | -.02020 | .00000 |
| .901 | 2.137 | -.08080 | -.04550 | .00000 | -.02020 | .03530 | -.02020 | .00000 |
| .902 | 3.192 | -.08080 | -.04550 | .00000 | -.02020 | .03530 | -.02020 | .00000 |
| .902 | 4.240 | -.06050 | -.05690 | .00000 | -.04040 | .00370 | -.04040 | .00000 |
| .903 | 6.316 | -.08080 | -.03420 | .00000 | .00000 | .04660 | .00000 | .00000 |
| .901 | 7.349 | -.08080 | -.02280 | .00000 | .00000 | .05800 | .00000 | -.01020 |
| | GRADIENT | .00381 | -.00424 | .00000 | .00003 | -.00805 | .00003 | -.00300 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1273

AMES 118-1-11 OAI45A 01

(02F005) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

ALPHA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 30/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|----------|----------|---------|---------|---------|
| 1.198 | -7.265 | -1.1110 | -0.1140 | .00000 | -0.1010 | .09970 | -0.1010 | .10380 |
| 1.202 | -6.282 | -1.1210 | -0.1140 | .00000 | -0.1010 | .10980 | -0.1010 | .10380 |
| 1.200 | -5.274 | -1.1010 | -0.1140 | .00000 | -0.3030 | .08960 | -0.3030 | .10380 |
| 1.199 | -2.142 | -1.1010 | -0.3420 | .00000 | -0.3030 | .06690 | -0.3030 | .07270 |
| 1.199 | -1.087 | -1.1010 | .00000 | .00000 | -0.3030 | .10100 | -0.3030 | .05190 |
| 1.200 | -.018 | -1.1010 | -0.2280 | -0.02000 | -0.4040 | .07820 | -0.2040 | .01040 |
| 1.199 | .519 | -1.1110 | -0.3420 | -0.10000 | -0.3030 | .07700 | -0.2030 | .03110 |
| 1.199 | 1.044 | -1.1110 | -0.3420 | -0.10000 | -0.05050 | .07700 | -0.4050 | .02080 |
| 1.198 | 2.115 | -1.1010 | -0.2280 | -0.10000 | -0.05050 | .07820 | -0.4050 | .01040 |
| 1.198 | 3.168 | -1.1010 | -0.2280 | -0.10000 | -0.05050 | .07820 | -0.4050 | .01040 |
| 1.197 | 4.216 | -1.1010 | -0.2280 | -0.20000 | -0.4040 | .07820 | -0.2040 | .01040 |
| 1.195 | 6.296 | -0.8080 | -0.2280 | -0.02000 | -0.05050 | .05800 | -0.3050 | .00000 |
| 1.195 | 7.333 | -0.8080 | -0.2280 | -0.02000 | -0.06060 | .05800 | -0.4060 | .00000 |
| 1.197 | GRADIENT | .00012 | -.00022 | -.00234 | -.00287 | -.00036 | -.00054 | -.00909 |

OAI145 TABULATED FORCE DATA

(02F006) (22 JUL 77)

AMES 118-1-11 OAI145A 01

DATE 10 MAR 80

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

| RUN NO. | | 0/ 0 | RN/L = 5.02 | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------|---------|-----------|-------------|---------------------------------|-----------|
| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI |
| | | DEL | DEL | DEL | DEL |
| .597 | -35.872 | -36.03700 | -35.33100 | -36.99600 | -35.12400 |
| .598 | -30.604 | -30.59900 | -30.22600 | -31.41500 | -30.17700 |
| .597 | -25.470 | -25.53200 | -25.12300 | -26.16900 | -25.05400 |
| .598 | -20.356 | -20.38000 | -20.08000 | -21.03200 | -19.93000 |
| .600 | -15.312 | -15.50600 | -14.93400 | -15.70700 | -15.10100 |
| .598 | -10.155 | -10.27500 | -9.93490 | -10.52800 | -9.88120 |
| .598 | -5.044 | -5.18300 | -4.83050 | -5.21900 | -4.94160 |
| .598 | -.031 | -.09090 | -.03420 | .00000 | .00000 |
| .598 | 4.955 | 5.19040 | 4.74920 | 4.83170 | 5.04770 |
| .598 | 10.017 | 10.38100 | 9.98880 | 9.69510 | 10.00500 |
| .598 | 14.933 | 15.24800 | 14.91300 | 14.31100 | 15.25900 |
| .598 | 20.041 | 20.33400 | 20.07100 | 19.37100 | 20.39100 |
| GRADIENT | | 1.05923 | .95937 | .96905 | 1.01237 |

| RUN NO. | | 0/ 0 | RN/L = 5.04 | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------|---------|-----------|-------------|---------------------------------|-----------|
| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI |
| | | DEL | DEL | DEL | DEL |
| .900 | -36.129 | -36.03700 | -36.38200 | -36.98300 | -35.11500 |
| .901 | -30.609 | -30.59900 | -30.22600 | -31.43500 | -30.17700 |
| .902 | -25.467 | -25.53200 | -25.10100 | -26.16900 | -25.06500 |
| .902 | -20.350 | -20.37000 | -20.06800 | -21.03200 | -19.93000 |
| .901 | -15.304 | -15.48400 | -14.92400 | -15.69800 | -15.11200 |
| .902 | -10.153 | -10.25500 | -9.94590 | -10.53900 | -9.87130 |
| .900 | -5.049 | -5.18300 | -4.83050 | -5.23000 | -4.95240 |
| .900 | -.034 | -.07070 | -.03420 | .00000 | .00000 |
| .899 | 4.964 | 5.19040 | 4.73760 | 4.89110 | 5.03700 |
| .897 | 10.055 | 10.39400 | 10.00400 | 9.82670 | 9.99540 |
| .899 | 14.975 | 15.21500 | 14.89500 | 14.53100 | 15.25900 |
| .899 | 20.095 | 20.33400 | 20.04100 | 19.60600 | 20.39900 |
| GRADIENT | | 1.05268 | .95478 | .97865 | 1.01391 |

DRHL
 .01040
 .00000
 .00000
 .00000
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 .00000
 .00000
 .01040
 .01040
 .02080
 .01040
 .01040
 .01040
 .00209

DRHL
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 .01040
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 .00000

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1275

AMES 118-1-11 0A145A O!

(02F006) (22 JUL 77)

REFERENCE DATA

| | | | |
|-------|---|-----------|--------|
| SREF | = | 2690.0000 | SQ.FT. |
| LREF | = | 474.8100 | INCHES |
| BREF | = | 936.6800 | INCHES |
| SCALE | = | .0500 | |

| | | | | |
|------|---|-----------|-----|----|
| XMRP | = | 1076.6800 | IN | X0 |
| YMRP | = | .0000 | IN. | Y0 |
| ZMRP | = | 375.0000 | IN. | Z0 |

| | | | | | |
|--------|---|--------|--------|---|------|
| ALPHA | = | 5.000 | BETA | = | .000 |
| AILRON | = | .000 | BOFLAP | = | .000 |
| SPOBRK | = | 25.000 | RUDDER | = | .000 |
| RN/L | = | 5.000 | | | |

PARAMETRIC DATA

| RUN NO. | 0/ 0 | RN/L = | 5.00 | GRADIENT | INTERVAL = | -5.00/ | 5.00 |
|---------|------|--------|------|----------|------------|--------|------|
|---------|------|--------|------|----------|------------|--------|------|

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|-----------|-----------|-----------|-----------|---------|---------|---------|
| 1.199 | -35.866 | -36.01800 | -35.35100 | -36.99600 | -35.09700 | .66710 | 1.89930 | .00000 |
| 1.199 | -30.613 | -30.58900 | -30.23700 | -31.42500 | -30.20200 | .35260 | 1.22270 | .00000 |
| 1.200 | -25.462 | -25.53200 | -25.10100 | -26.16000 | -25.05400 | .43110 | 1.10510 | .00000 |
| 1.201 | -15.315 | -15.51700 | -14.93400 | -15.71700 | -15.09100 | .58320 | .62610 | -.01020 |
| 1.200 | -10.157 | -10.26500 | -9.96810 | -10.50500 | -9.89110 | .29670 | .61400 | .00000 |
| 1.199 | -5.043 | -5.20220 | -4.83050 | -5.19700 | -4.94160 | .37170 | .25540 | .00000 |
| 1.198 | -.025 | -.09090 | .00000 | .00000 | -.01010 | .09090 | -.01010 | .00000 |
| 1.198 | 4.965 | 5.19040 | 4.72600 | 4.94060 | 5.00490 | -.46440 | .06430 | .00000 |
| 1.197 | 10.083 | 10.43400 | 9.99650 | 9.90580 | 9.99540 | -.43780 | .08960 | .00000 |
| 1.197 | 15.021 | 15.24800 | 14.87800 | 14.70900 | 15.24800 | -.37010 | .53930 | .00000 |
| 1.197 | 20.125 | 20.27600 | 20.06100 | 19.75000 | 20.37400 | -.21500 | .58400 | .00000 |
| GRADIENT | | 1.05621 | 9.6694 | .98994 | 1.00485 | -.11126 | .01491 | .00000 |

AMES 118-1-11 0A145A 01

(D2F007) (16 JUL 77)

REFERENCE DATA

| | | | |
|-------|---|----------|--------|
| SREF | = | 2690.000 | SQ.FT. |
| LREF | = | 474.8100 | INCHES |
| BREF | = | 936.6800 | INCHES |
| SCALE | = | .0500 | |

| | | | | |
|-------|---|-----------|-----|----|
| XY..0 | = | 1076.6900 | IN. | X0 |
| YFL.P | = | .0000 | IN. | Y0 |
| ZMRP | = | 375.0000 | IN. | Z0 |

| | | | | | |
|--------|---|--------|--------|---|------|
| ALPHA | = | 5.000 | BETA | = | .000 |
| ELEVON | = | .000 | BDFLAP | = | .000 |
| SPOBRK | = | 25.000 | RUDDER | = | .000 |
| RN/L | = | 5.000 | | | |

PARAMETRIC DATA

| | | | | | | |
|--------|-------|------|--------|----------|----------|---------------|
| BIN NO | 46/ 0 | RN/1 | = 5.03 | GRADIENT | INTERVAL | = -5.00/ 5.00 |
|--------|-------|------|--------|----------|----------|---------------|

| MACH | ATLON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|-----------|----------|---------|---------|---------|
| .598 | -5.048 | -5.15420 | -4.88600 | 5.11580 | 5.03700 | .26820 | -.07880 | .02080 |
| .598 | -3.055 | -3.18080 | -2.88000 | 3.10000 | 3.06000 | .30080 | -.04000 | .02080 |
| .598 | -2.050 | -2.14600 | -1.98230 | 2.16300 | 2.07000 | .16360 | -.09300 | .01040 |
| .598 | -.023 | -.08080 | -.02280 | -.01000 | .00000 | .05800 | .01000 | .02080 |
| .598 | 1.877 | 1.93070 | 1.83250 | -1.89510 | -1.99180 | -.09820 | -.03670 | .01040 |
| .598 | 2.889 | 3.04650 | 2.80530 | -2.88140 | -2.82390 | -.24120 | .05750 | .01040 |
| .598 | 4.947 | 5.27770 | 4.64460 | -5.12000 | -4.74520 | -.63310 | .37480 | .01040 |
| .598 | 8.074 | 9.23030 | 8.01430 | -8.17170 | -7.88120 | -.21600 | .29050 | .01040 |
| .598 | 10.077 | 11.30200 | 9.86940 | -10.32600 | -9.79210 | -.41220 | .53340 | .01040 |
| GRADIENT | | | | | | | | |
| | | 1.05284 | .94696 | -1.02221 | -.97798 | -.10588 | .04423 | -.00103 |

AMES 118-1-11 0A145A 01

(D2F007) (16 JUL 77)

REFERENCE DATA

| | | | |
|-------|---|-----------|--------|
| SREF | = | 2690.0000 | SQ.FT. |
| LREF | = | 474.8100 | INCHES |
| BREF | = | 936.6800 | INCHES |
| SCALE | = | .0500 | |

| | | |
|-----------|-----|----|
| 1076.6800 | IN. | X0 |
| .0000 | IN. | Y0 |
| 375.0000 | IN. | Z0 |

PARAMETRIC DATA

| | | | | | |
|--------|---|--------|--------|---|------|
| ALPHA | = | 5.000 | BETA | = | .000 |
| ELEVON | = | .000 | BOFLAP | = | .000 |
| SPOBRK | = | 25.000 | RUDDER | = | .000 |
| RN/L | = | 5.000 | | | |

| ITEM NO | QTY | UNIT | DESCRIPTION | GRADIENT | INTERVAL | VALUE |
|---------|------|------|-------------|----------|----------|-------|
| 1 | 1.00 | 1 | 1.00 | 5.00 | -5.00 | 5.00 |

[illegible]

| | | |
|-------|-------------|---------------------------------|
| 32/ 0 | RN/L = 5.03 | GRADIENT INTERVAL = -5.00/ 5.00 |
|-------|-------------|---------------------------------|

| MACH | AILRON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|-----------|----------|---------|---------|--------|
| 1.139 | -5.088 | -5.14460 | -4.91930 | 5.18710 | 5.10120 | .22530 | -.08590 | .00000 |
| 1.139 | -3.085 | -3.19980 | -2.90000 | 3.07000 | 3.07000 | .29980 | -.10000 | .00000 |
| 1.198 | -2.102 | -2.15560 | -1.98230 | 2.20950 | 2.06000 | .17320 | -.14950 | .01020 |
| 1.199 | -.011 | -.05050 | -.03280 | -.02000 | -.01010 | .02770 | .00990 | .00000 |
| 1.198 | 1.877 | 1.90930 | 1.83250 | -1.88470 | -1.90160 | .07680 | -.03690 | .00000 |
| 1.198 | 2.889 | 3.05680 | 2.79430 | -2.88140 | -2.82390 | -.26250 | .05750 | .00000 |
| 1.198 | 4.920 | 5.21950 | 4.64460 | -4.94400 | -4.87400 | -.57490 | .07000 | .00000 |
| 1.196 | 8.084 | 8.23840 | 8.00530 | -8.19190 | -7.90100 | -.23310 | .29090 | .00000 |
| 1.198 | 10.078 | 10.30200 | 9.87410 | -10.32600 | -9.81190 | -.42750 | .51360 | .00000 |
| GRADIENT | | 1.04858 | .94760 | -1.01451 | -.98932 | -.10097 | .02519 | .00062 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(D2F008) (16 JUL 77)

AMES 118-1-11 OAI43A 01

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELEVON = .000 AILRON = .000
SPDRK = 25.000 RUDDER = .000
RN/L = 5.000

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

| MACH | BOFLAP | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|---------|---------|--------|---------|---------|---------|--------|
| .598 | -11.751 | -.08080 | -.03420 | .00000 | .00000 | .04660 | .00000 | .02080 |
| .598 | -8.030 | -.08080 | -.03420 | .00000 | .00000 | .04660 | .00000 | .02080 |
| .598 | -5.390 | -.07070 | -.03420 | .00000 | .00000 | .03650 | .00000 | .02080 |
| .598 | -3.980 | -.08080 | -.03420 | .00000 | .00000 | .04660 | .00000 | .02080 |
| .598 | -2.010 | -.08080 | -.03420 | .00000 | .00000 | .04660 | .00000 | .02080 |
| .598 | .000 | -.07070 | -.04550 | .00000 | .00000 | .02520 | .00000 | .02080 |
| .598 | 1.970 | -.07070 | -.04550 | .00000 | .00000 | .02520 | .00000 | .02080 |
| .598 | 3.980 | -.07070 | -.04550 | .00000 | .00000 | .02520 | .00000 | .02080 |
| .598 | 5.990 | -.07070 | -.04550 | .00000 | .00000 | .02520 | .00000 | .02080 |
| .598 | 8.010 | -.08080 | -.04550 | .00000 | .00000 | .03530 | .00000 | .02080 |
| .598 | 12.050 | -.07070 | -.03420 | .00000 | .00000 | .03650 | .00000 | .02080 |
| .597 | 16.371 | -.07070 | -.03420 | .00000 | .00000 | .03650 | .00000 | .02080 |
| .597 | 22.566 | -.07070 | -.04550 | .00000 | .00000 | .02520 | .00000 | .02080 |
| GRADIENT | | .00152 | -.00170 | .00000 | -.00102 | -.00323 | -.00102 | .00000 |

| MACH | BOFLAP | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|---------|---------|--------|---------|--------|---------|---------|
| .900 | -11.771 | -.08080 | -.01140 | .00000 | .00000 | .06940 | .00000 | -.01020 |
| .902 | -8.020 | -.08080 | -.01140 | .00000 | .00000 | .06940 | .00000 | -.01020 |
| .900 | -6.000 | -.06050 | -.01140 | .00000 | .00000 | .04920 | .00000 | -.01020 |
| .902 | -4.000 | -.06050 | -.01140 | .00000 | .00000 | .04920 | .00000 | -.01020 |
| .899 | -2.010 | -.06050 | -.01140 | .00000 | .00000 | .04920 | .00000 | -.01020 |
| .900 | -.010 | -.07070 | -.01140 | .00000 | .00000 | .05930 | .00000 | -.02040 |
| .900 | 1.960 | -.07070 | -.02280 | .00000 | .00000 | .04790 | .00000 | -.01020 |
| .900 | 3.970 | -.07070 | -.01140 | .00000 | .00000 | .04790 | .00000 | -.02040 |
| .899 | 5.970 | -.07070 | -.02280 | .00000 | .00000 | .04790 | .00000 | -.02040 |
| .899 | 7.990 | -.07070 | -.02280 | .00000 | .00000 | .04790 | .00000 | -.01020 |
| .900 | 12.040 | -.07070 | -.02280 | .00000 | .00000 | .04790 | .00000 | -.02040 |
| .900 | 16.371 | -.07070 | -.02280 | .00000 | .00000 | .04790 | .00000 | -.01020 |
| .899 | 22.556 | -.07070 | -.02280 | .00000 | .00000 | .04790 | .00000 | -.01020 |
| GRADIENT | | -.00152 | -.00057 | .00000 | -.00102 | .00095 | -.00102 | .00102 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1278

AMES 118-1-11 OAI45A 01

(D2F008) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 33/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BOFLAP | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|---------|---------|--------|---------|--------|
| 1.199 | -11.761 | -.09090 | -.03420 | -.01000 | -.02020 | .05680 | -.01020 | .00000 |
| 1.199 | -8.020 | -.08080 | -.03420 | .00000 | -.02020 | .04660 | -.02020 | .00000 |
| 1.198 | -6.000 | -.08080 | -.03420 | -.01000 | -.03030 | .04660 | -.02030 | .00000 |
| 1.198 | -4.010 | -.07070 | -.05690 | -.01000 | -.02020 | .01380 | -.01020 | .00000 |
| 1.199 | -2.010 | -.07070 | -.04550 | .00000 | -.02020 | .02520 | -.02020 | .00000 |
| 1.198 | -.010 | -.09090 | -.04550 | .00000 | -.02020 | .04540 | -.02020 | .00000 |
| 1.199 | 1.940 | -.09090 | -.04550 | .00000 | -.02020 | .04540 | -.02020 | .00000 |
| 1.200 | 3.960 | -.09090 | -.04550 | .00000 | -.03030 | .03400 | -.03030 | .00000 |
| 1.199 | 5.970 | -.09090 | -.05690 | .00000 | -.02020 | .04660 | -.02020 | .00000 |
| 1.199 | 8.000 | -.08080 | -.03420 | .00000 | -.02020 | .04660 | -.01010 | .00000 |
| 1.198 | 12.030 | -.08080 | -.03420 | .00000 | -.01010 | .04660 | -.02020 | .00000 |
| 1.199 | 16.351 | -.08080 | -.04550 | .00000 | -.02020 | .03530 | -.02020 | .00000 |
| 1.199 | 22.353 | -.08080 | -.04550 | .00000 | -.02020 | .03530 | -.02020 | .00000 |
| 1.199 | GRADIENT | -.00305 | .00115 | .00101 | .00000 | .00420 | -.00101 | .00300 |

AMES 118-1-11 OAI45A 01

(D2F009) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BOFLAP = .000 SPDBRK = 25.000
 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 48/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|--------|--------|--------|--------|-----------|
| .598 | -1.077 | -.07070 | -.04550 | .00000 | .00000 | .01380 | .00000 | -10.03000 |
| .598 | -4.130 | -.07070 | -.04550 | .00000 | .00000 | .02520 | .00000 | -5.02710 |
| .598 | -2.071 | -.07070 | -.04550 | .00000 | .00000 | .01380 | .00000 | -2.52240 |
| .598 | -.025 | -.06060 | -.05690 | .00000 | .00000 | .00370 | .00000 | -.03060 |
| .598 | 2.107 | -.08080 | -.05690 | .00000 | .00000 | .02390 | .00000 | 2.56610 |
| .598 | 4.111 | -.07070 | -.04550 | .00000 | .00000 | .02520 | .00000 | 5.00450 |
| .598 | 8.360 | -.07070 | -.04550 | .00000 | .00000 | .02520 | .00000 | 10.15000 |
| .598 | GRADIENT | -.00050 | -.00000 | .00000 | .00000 | .00050 | .00000 | 1.21743 |

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OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(DEF009) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

ALPHA = 5.000 BETA = .000
ELEVON = .000 AILRON = .000
BOFLAP = .000 SPDBRK = 25.000
RN/L = 5.000

PARAMETRIC DATA

RUN NO. 42/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|--------|--------|--------|-----------|
| .901 | -8.267 | -.07070 | -.01140 | .00000 | .00000 | .05930 | .00000 | -10.03800 |
| .901 | -4.138 | -.05050 | -.02280 | .00000 | .00000 | .02770 | .00000 | -5.03740 |
| .900 | -2.089 | -.06060 | -.03420 | .00000 | .00000 | .02640 | .00000 | -2.54480 |
| .902 | .008 | -.06060 | -.02280 | .00000 | .00000 | .03780 | .00000 | .01040 |
| .901 | 2.132 | -.06060 | -.02280 | .00000 | .00000 | .03780 | .01000 | 2.59660 |
| .901 | 4.111 | -.06060 | -.02280 | .00000 | .00000 | .03780 | .01000 | 5.00450 |
| .901 | 8.394 | -.06060 | -.02280 | .00000 | .00000 | .03780 | .00000 | 10.19100 |
| .901 | GRADIENT | -.00097 | .00056 | -.00145 | .00000 | .00153 | .00145 | 1.21744 |

RUN NO. 34/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|---------|---------|--------|---------|-----------|
| 1.199 | -12.488 | -.09090 | -.05690 | .00000 | .00000 | .03400 | -.02020 | -15.10000 |
| 1.199 | -8.259 | -.10100 | -.05690 | .00000 | .00000 | .04410 | -.02020 | -10.02900 |
| 1.200 | -4.121 | -.08080 | -.05690 | .00000 | .00000 | .02390 | -.02020 | -5.01680 |
| 1.198 | -2.071 | -.08080 | -.03420 | .00000 | .00000 | .04660 | -.04040 | -2.52240 |
| 1.198 | .008 | -.07070 | -.03420 | .00000 | .00000 | .03650 | -.01020 | .01040 |
| 1.200 | 2.090 | -.09090 | -.03420 | .00000 | .00000 | .05680 | -.03040 | 2.54580 |
| 1.199 | 4.111 | -.09090 | -.03420 | .00000 | .00000 | .05680 | -.01020 | 5.00450 |
| 1.200 | 8.368 | -.09090 | -.03420 | .00000 | .00000 | .05680 | -.02020 | 10.16100 |
| 1.200 | GRADIENT | -.00147 | .00220 | -.00146 | -.00001 | .00368 | .00145 | 1.21744 |

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OAI45 TABULATED FORCE DATA

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(02F010) (18 MAY 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

| ALPHA | MACH | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|---------|--------|---------|--------|---------|
| 4.397 | .593 | -.09090 | .00000 | .00000 | .00000 | .09090 | .00000 | -.01020 |
| 4.436 | .651 | -.08080 | .00000 | .00000 | .00000 | .08080 | .00000 | -.01020 |
| 4.468 | .700 | -.07070 | .00000 | .00000 | .00000 | .07070 | .00000 | -.01020 |
| 4.502 | .747 | -.08080 | .00000 | .00000 | .00000 | .08080 | .00000 | -.01020 |
| 4.538 | .796 | -.09090 | .00000 | .00000 | .00000 | .07950 | .00000 | -.01020 |
| 4.575 | .868 | -.08080 | -.01140 | .00000 | .00000 | .06940 | .00000 | -.01020 |
| 4.607 | .900 | -.07070 | .00000 | .00000 | .00000 | .07070 | .00000 | -.01020 |
| 4.640 | .921 | -.08080 | .00000 | .00000 | .00000 | .08080 | .00000 | -.02040 |
| 4.675 | .935 | -.08080 | .00000 | .00000 | .00000 | .08080 | .00000 | -.01020 |
| 4.707 | .953 | -.08080 | -.01140 | .00000 | .00000 | .06940 | .00000 | -.01020 |
| 4.739 | .971 | -.07070 | .00000 | .00000 | .00000 | .07070 | .00000 | -.01020 |
| 4.769 | .987 | -.07070 | .00000 | .00000 | .00000 | .07070 | .00000 | -.01020 |
| 4.796 | 1.003 | -.08080 | -.01140 | .00000 | .00000 | .06940 | .00000 | -.01020 |
| 4.822 | 1.012 | -.07070 | .00000 | .00000 | .00000 | .05930 | .00000 | -.02040 |
| 4.846 | 1.023 | -.09090 | -.01140 | .00000 | .00000 | .07950 | .00000 | -.02040 |
| 4.909 | 1.032 | -.07070 | .00000 | .00000 | .00000 | .05930 | .00000 | -.03060 |
| 4.919 | 1.042 | -.07070 | -.01140 | .00000 | .00000 | .05930 | .00000 | -.03060 |
| 4.935 | 1.055 | -.07070 | -.01140 | .00000 | .00000 | .05930 | .00000 | -.03060 |
| 4.959 | 1.109 | -.06060 | .00000 | .00000 | .00000 | .06060 | .00000 | -.03060 |
| 4.973 | 1.146 | -.06060 | .00000 | .00000 | .00000 | .06060 | .00000 | -.04080 |
| 4.963 | 1.196 | -.08080 | -.01140 | .00000 | .00000 | .06940 | .00000 | -.04080 |
| 4.962 | 1.203 | -.08080 | -.01140 | .00000 | .00000 | .05940 | .00000 | -.03060 |
| 4.963 | 1.295 | -.07070 | .00000 | -.02000 | .00000 | .07070 | .00000 | -.04080 |
| 4.926 | 1.348 | -.08080 | -.01140 | .00000 | .00000 | .06940 | .00000 | -.03060 |
| 4.982 | 1.404 | -.07070 | -.01140 | .00000 | .00000 | .05930 | .00000 | -.04080 |
| | GRADIENT | .01538 | -.01115 | -.00569 | .00000 | -.02652 | .00589 | -.04739 |

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0A145 TABULATED FORCE DATA

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AMES 118-1-11 0A145A 01

(DEF011) (18 MAY 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 52/ 0 RN/L = 4.83 GRADIENT INTERVAL = -5.00/ 5.00

| ALPHA | MACH | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|--------|----------|---------|---------|---------|--------|---------|---------|---------|
| 14.971 | .590 | -.08080 | .00000 | .00000 | .00000 | .08080 | .00000 | -.02040 |
| 14.630 | .647 | -.08080 | .00000 | -.02000 | .00000 | .08080 | .02000 | -.02040 |
| 14.742 | .700 | -.08080 | .00000 | .01150 | .00000 | .08080 | -.01150 | -.02040 |
| 14.829 | .740 | -.07070 | .00000 | .01150 | .00000 | .07070 | -.01150 | -.01020 |
| 14.976 | .812 | -.07070 | .00000 | .00000 | .00000 | .07070 | .00000 | -.01020 |
| 14.828 | .881 | -.07070 | .00000 | .00000 | .00000 | .07070 | .00000 | -.02040 |
| 14.855 | .894 | -.07070 | .00000 | .00000 | .00000 | .07070 | .00000 | -.04080 |
| 14.891 | .909 | -.08080 | .00000 | .00000 | .00000 | .08080 | .00000 | -.03060 |
| 15.039 | .956 | -.08080 | -.01140 | .01150 | .00000 | .06940 | -.01150 | -.03060 |
| 15.082 | .969 | -.09090 | .00000 | .00000 | .00000 | .09090 | .00000 | -.03060 |
| 15.054 | .987 | -.07070 | -.01140 | .00000 | .00000 | .05930 | .00000 | -.03060 |
| 15.088 | 1.000 | -.08080 | .00000 | .01150 | .00000 | .08080 | -.01150 | -.03060 |
| 15.115 | 1.013 | -.08080 | .00000 | .02300 | .00990 | .08080 | -.01310 | -.02040 |
| 15.132 | 1.021 | -.07070 | .00000 | .00000 | .00000 | .07070 | .00000 | -.03060 |
| 15.033 | 1.033 | -.07070 | -.01140 | .00000 | .00000 | .05930 | .00000 | -.02040 |
| 15.074 | 1.043 | -.07070 | .00000 | .00000 | .00990 | .07070 | .00990 | -.02040 |
| 15.092 | 1.052 | -.08080 | -.01140 | .01150 | .00990 | .06940 | -.00160 | -.02040 |
| 15.167 | 1.103 | -.07070 | -.01140 | .00000 | .00990 | .05930 | .00990 | -.01020 |
| 15.274 | 1.152 | -.08080 | .00000 | .00000 | .00000 | .08080 | .00000 | -.01020 |
| 15.243 | 1.203 | -.09090 | -.02280 | .00000 | .00000 | .06810 | .00000 | -.02040 |
| 15.222 | 1.249 | -.07070 | -.01140 | .00000 | .00000 | .05930 | .00000 | -.02040 |
| 15.222 | 1.298 | -.08080 | .00000 | .00000 | .00000 | .08080 | .00000 | -.02040 |
| 15.204 | 1.353 | -.07070 | .00000 | .00000 | .00000 | .07070 | .00000 | -.01020 |
| 15.162 | 1.397 | -.09090 | .00000 | .00000 | .00000 | .09090 | .00000 | -.02040 |
| 14.803 | GRADIENT | -.00444 | -.00864 | .00097 | .00201 | -.00419 | .00104 | .00519 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

AMES 118-1-11 OAI45A 01

(02F012) (16 JUL 77)

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

| RUN NO. | | 60/ 0 | RN/L = | 5.00 | GRADIENT INTERVAL = | | -5.00/ | 5.00 |
|---------|----------|--------|--------|--------|---------------------|--------|--------|---------|
| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
| .597 | -9.798 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.02040 |
| .597 | -4.888 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.02040 |
| .598 | .041 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.03060 |
| .597 | 2.616 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.03060 |
| .596 | 5.126 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.02040 |
| .599 | 6.127 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.02040 |
| .598 | 7.165 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.02040 |
| .598 | 8.175 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.02040 |
| .599 | 9.191 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.02040 |
| .598 | 10.222 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.02040 |
| .598 | 11.255 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.02040 |
| .598 | 12.297 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.02040 |
| .598 | 13.315 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.02040 |
| .597 | 15.358 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.02040 |
| .597 | 20.145 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.02040 |
| .598 | GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.00145 |

| RUN NO. | | 112/ 0 | RN/L = | 4.96 | GRADIENT INTERVAL = | | -5.00/ | 5.00 |
|---------|----------|---------|---------|---------|---------------------|--------|---------|---------|
| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
| .797 | -9.972 | -.07070 | -.02280 | -.01000 | -.02020 | .04790 | -.01020 | -.01020 |
| .799 | -4.611 | -.07070 | -.03420 | -.01000 | -.02020 | .03650 | -.01020 | -.01020 |
| .799 | .270 | -.07070 | -.03420 | -.01000 | -.02020 | .03650 | -.01020 | -.03060 |
| .799 | 2.950 | -.07070 | -.03420 | -.01000 | -.02020 | .03650 | -.01020 | -.02040 |
| .798 | 5.321 | -.07070 | -.03420 | -.01000 | -.03030 | .03650 | -.02030 | .02080 |
| .798 | 6.482 | -.07070 | -.03420 | -.01000 | -.02020 | .03650 | -.02030 | .00000 |
| .798 | 7.515 | -.07070 | -.03420 | -.01000 | -.03030 | .03650 | -.01020 | .00000 |
| .798 | 8.537 | -.07070 | -.03420 | -.01000 | -.02020 | .03650 | -.01030 | .00000 |
| .797 | 9.558 | -.07070 | -.03420 | -.02000 | -.03030 | .03650 | -.01020 | .00000 |
| .798 | 10.718 | -.07070 | -.03420 | -.01000 | -.02020 | .03650 | -.01020 | .00000 |
| .798 | 11.513 | -.07070 | -.03420 | -.01000 | -.02020 | .03650 | -.01020 | .00000 |
| .799 | 12.651 | -.07070 | -.03420 | -.01000 | -.02020 | .02520 | -.01020 | -.01020 |
| .797 | 13.603 | -.07070 | -.04550 | -.01000 | -.02020 | .03650 | -.01020 | .00000 |
| .795 | 15.607 | -.07070 | -.03420 | -.01000 | -.02020 | .03530 | -.02030 | -.02040 |
| .796 | 20.235 | -.08080 | -.04550 | -.01000 | -.03030 | .00000 | -.00000 | -.00237 |
| .796 | GRADIENT | .00000 | -.00000 | -.00000 | .00000 | .00000 | .00000 | .00000 |

AMES 118-1-11 0A145A 01

(D2F012) (16 JUL 77)

REFERENCE DATA

| | | | |
|-------|---|-----------|--------|
| SREF | = | 2690.0000 | SQ.FT. |
| LREF | = | 474.8100 | INCHES |
| BREF | = | 936.6800 | INCHES |
| SCALE | = | .0500 | |

| | | | | |
|------|---|-----------|-----|----|
| XMRP | = | 1076.6800 | IN. | X0 |
| YMRP | = | .0000 | IN. | Y0 |
| ZMRP | = | 375.0000 | IN. | Z0 |

| | | | | | |
|--------|---|--------|--------|---|------|
| BETA | = | .000 | ELEVON | = | .000 |
| AILRON | = | .000 | BDFLAP | = | .000 |
| SPDBRK | = | 25.000 | RUDDER | = | .000 |
| RN/L | = | 5.000 | | | |

PARAMETRIC DATA

| | | | | |
|---------|-------|-------------|----------------------------|------|
| RUN NO. | B9/ 0 | RN/L = 5.07 | GRADIENT INTERVAL = -5.00/ | 5.00 |
|---------|-------|-------------|----------------------------|------|

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|--------|---------|---------|---------|---------|--------|---------|---------|
| .898 | -9.783 | -.08080 | -.06830 | -.01000 | -.02020 | .01250 | -.01020 | .00000 |
| .899 | -4.883 | -.09090 | -.07970 | -.01000 | -.03030 | .01120 | -.02030 | .00000 |
| .901 | .126 | -.09090 | -.07970 | -.01000 | -.03030 | .01120 | -.02030 | .00000 |
| .899 | 3.192 | -.10100 | -.07970 | -.01000 | -.02020 | .02130 | -.02030 | -.01020 |
| .900 | 5.186 | -.10100 | -.07970 | -.01000 | -.03030 | .02130 | -.01020 | -.02040 |
| .899 | 5.659 | -.10100 | -.07970 | -.01000 | -.03030 | .02130 | -.02030 | -.01020 |
| .899 | 6.208 | -.10100 | -.07970 | -.01000 | -.02020 | .02130 | -.01020 | -.03060 |
| .899 | 7.239 | -.09090 | -.07970 | -.02000 | -.03030 | .01120 | -.01030 | -.01020 |
| .898 | 8.294 | -.10100 | -.07970 | -.02000 | -.03030 | .02130 | -.01030 | -.02040 |
| .900 | 9.292 | -.11110 | -.07970 | -.02000 | -.03030 | .03140 | -.01020 | .00000 |
| .898 | 10.337 | -.10100 | -.07970 | -.01000 | -.02020 | .02130 | -.01030 | -.04080 |
| .899 | 11.371 | -.10100 | -.07970 | -.02000 | -.03030 | .02130 | -.02030 | .00000 |
| .899 | 12.386 | -.10100 | -.07970 | -.01000 | -.03030 | .02130 | -.02030 | .00000 |
| .899 | 13.404 | -.11110 | -.07970 | -.01000 | -.03030 | .03140 | -.02030 | .06110 |
| .899 | 15.471 | -.10100 | -.09110 | -.02000 | -.03030 | .00990 | -.01030 | .02080 |
| .897 | 20.394 | -.10110 | -.07970 | -.02000 | -.03030 | .03140 | -.01030 | -.04080 |
| CRASH | | -.0013 | .00000 | -.00000 | -.00000 | .03113 | .00000 | -.00114 |

| | | | | | | | |
|---------|-------|--------|------|----------|------------|--------|------|
| RUN NO. | 62/ 0 | RN/L = | 5.02 | GRADIENT | INTERVAL = | -5.00/ | 5.00 |
|---------|-------|--------|------|----------|------------|--------|------|

[illegible]

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

AMES 118-1-11 0A145A 01

(D2F012) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 171/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|---------|---------|--------|--------|--------|
| 1.050 | -4.952 | -0.7070 | -0.4550 | -0.3000 | -0.2020 | .02520 | .00980 | .02080 |
| 1.051 | .237 | -0.7070 | -0.4550 | -0.3000 | -0.2020 | .02520 | .00980 | .02080 |
| 1.048 | 2.804 | -0.8080 | -0.4550 | -0.2000 | -0.2020 | .03530 | .00020 | .03110 |
| 1.046 | 5.332 | -0.8080 | -0.4550 | -0.2000 | -0.2020 | .03530 | .00020 | .01020 |
| 1.048 | 6.204 | -0.8080 | -0.4550 | -0.2000 | -0.2020 | .03530 | .00020 | .02040 |
| 1.049 | 7.394 | -0.8080 | -0.5690 | -0.3000 | -0.2020 | .02390 | .00980 | .02040 |
| 1.048 | 8.379 | -0.8080 | -0.5690 | -0.2000 | -0.2020 | .02390 | .00020 | .03060 |
| 1.048 | 9.460 | -0.8080 | -0.4550 | -0.3000 | -0.2020 | .03530 | .00980 | .04080 |
| 1.050 | 10.519 | -0.8080 | -0.4550 | -0.2000 | -0.2020 | .03530 | .00020 | .06110 |
| 1.049 | 11.504 | -0.8080 | -0.4550 | -0.2000 | -0.2020 | .03530 | .00980 | .07130 |
| 1.048 | 12.723 | -0.8080 | -0.4550 | -0.2000 | -0.2020 | .03530 | .00020 | .08150 |
| 1.048 | 13.585 | -0.9090 | -0.4550 | -0.2000 | -0.2020 | .04540 | .00980 | .08150 |
| 1.046 | 15.666 | -0.9090 | -0.4550 | -0.2000 | -0.2020 | .04540 | .00020 | .09170 |
| 1.046 | 20.642 | -0.8080 | -0.5690 | -0.3000 | -0.2020 | .02390 | .00980 | .11210 |
| 1.048 | GRADIENT | -0.0111 | .00000 | .00110 | .00000 | .00111 | .00110 | .00114 |

RUN NO. 122/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|---------|---------|---------|--------|--------|
| 1.100 | -5.494 | -0.7070 | -0.4550 | -0.2000 | -0.1010 | .02520 | .00990 | .00000 |
| 1.104 | .165 | -0.7070 | -0.4550 | -0.3000 | -0.2020 | .02520 | .00980 | .00000 |
| 1.106 | .142 | -0.7070 | -0.4550 | -0.1000 | -0.1010 | .02520 | .08990 | .00000 |
| 1.099 | 2.432 | -0.7070 | -0.4550 | -0.3000 | -0.2020 | .02520 | .00980 | .00000 |
| 1.100 | 4.991 | -0.8080 | -0.5690 | -0.2800 | -0.2020 | .02390 | .25980 | .00000 |
| 1.100 | 5.907 | -0.7070 | -0.4550 | -0.9000 | -0.1010 | .02520 | .07990 | .00000 |
| 1.100 | 6.948 | -0.7070 | -0.4550 | -0.8000 | -0.1010 | .02520 | .06990 | .00000 |
| 1.098 | 7.973 | -0.7070 | -0.4550 | -0.9000 | -0.1010 | .02520 | .06990 | .00000 |
| 1.099 | 8.969 | -0.8080 | -0.5690 | -0.8000 | -0.3030 | .02390 | .03970 | .00000 |
| 1.098 | 10.149 | -0.8080 | -0.5690 | -0.7000 | -0.2020 | .02390 | .06980 | .00000 |
| 1.098 | 11.014 | -0.8080 | -0.5690 | -0.9000 | -0.1010 | .02390 | .06990 | .00000 |
| 1.098 | 12.091 | -0.9090 | -0.5690 | -0.8000 | -0.2020 | .02390 | .08980 | .00000 |
| 1.100 | 13.046 | -0.8080 | -0.5690 | -1.1000 | -0.2020 | .02390 | .08980 | .00000 |
| 1.095 | 15.217 | -0.8080 | -0.5690 | -1.1000 | -0.2020 | .02390 | .08980 | .00000 |
| 1.095 | 19.660 | -0.9090 | -0.5690 | -0.8000 | -0.2020 | .03400 | .05980 | .00000 |
| 1.085 | GRADIENT | -0.0185 | -.00208 | -.03874 | -.00100 | -.00024 | .03774 | .00000 |

AMES 118-1-11 0A145A 01

(02F012) (16 JUL 77)

REFERENCE DATA

| | | | | | | | | | | | | | | |
|---|-------|---|-----------|--------|------|---|-----------|--------|--------|---|--------|--------|---|------|
| = | SREF | = | 2690.0000 | SG.FT. | XMRP | = | 1076.6800 | IN. X0 | BETA | = | .000 | ELEVON | = | .000 |
| = | LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. Y0 | AIRLON | = | .000 | BDFLAP | = | .000 |
| = | BRFF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. Z0 | SPOBRK | = | 25.000 | RUDDER | = | .000 |
| = | SCALE | = | .0500 | | | | | | RN/L | = | 5.000 | | | |

PARAMETRIC DATA

| RUN NO. | 81/ 0 | RN/L = 5.06 | GRADIENT INTERVAL = -5.00/ 5.00 | DELTA | DRHL |
|----------|---------|-------------|---------------------------------|---------|---------|
| ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL |
| -5.129 | -.08080 | -.05690 | -.39000 | -.01010 | .02390 |
| -.120 | -.09090 | -.05690 | -.19000 | -.01010 | .03400 |
| 2.435 | -.09090 | -.05690 | -.21000 | .00000 | .03400 |
| 4.961 | -.09090 | -.05690 | -.10000 | .00000 | .03400 |
| 5.966 | -.09090 | -.05690 | -.08000 | -.01010 | .03400 |
| 6.979 | -.09090 | -.05690 | -.09000 | -.01010 | .03400 |
| 8.033 | -.09090 | -.05690 | -.12000 | -.01010 | .03400 |
| 9.019 | -.09090 | -.05690 | -.08000 | -.03030 | .03400 |
| 10.127 | -.09090 | -.05690 | -.09000 | .00000 | .03400 |
| 11.526 | -.07070 | -.05690 | -.07000 | .00000 | .01380 |
| 12.185 | -.09090 | -.05690 | -.10000 | -.01010 | .03400 |
| 13.515 | -.09090 | -.05690 | -.07000 | .00000 | .03400 |
| 15.280 | -.09090 | -.05690 | -.09000 | -.01010 | .03400 |
| 20.297 | -.09090 | -.06830 | -.12000 | -.01010 | .02260 |
| GRADIENT | .00000 | .00000 | .01767 | .00199 | -.00000 |
| | | | | | -.01568 |
| | | | | | -.00205 |

| RUN NO. | 78/ 0 | RN/L | 5.02 | GRADIENT | INTERVAL | - 5.00/ | 5.00 | DRAL |
|----------|--------|---------|---------|----------|----------|---------|--------|------|
| ALPHA | | | | | | | | |
| 5.112 | 0.0000 | -0.0420 | -0.0100 | -0.0100 | 0.0460 | -0.0010 | 0.0000 | |
| 5.114 | 0.0000 | -0.0420 | -0.0100 | -0.0100 | 0.0460 | -0.0010 | 0.0000 | |
| 5.375 | 0.0100 | -0.0420 | -0.0100 | -0.0100 | 0.0460 | -0.0010 | 0.0000 | |
| 4.895 | 0.0000 | -0.0280 | -0.0100 | -0.0100 | 0.0500 | -0.0010 | 0.0000 | |
| 6.696 | 0.0000 | -0.0280 | -0.0100 | -0.0100 | 0.0610 | -0.0010 | 0.0000 | |
| 7.043 | 0.0000 | -0.0340 | -0.0100 | -0.0100 | 0.0500 | -0.0010 | 0.0000 | |
| 8.067 | 0.0000 | -0.0280 | -0.0100 | -0.0100 | 0.0610 | -0.0010 | 0.0000 | |
| 9.130 | 0.0000 | -0.0340 | -0.0100 | -0.0100 | 0.0460 | -0.0010 | 0.0000 | |
| 10.134 | 0.0000 | -0.0340 | -0.0100 | -0.0100 | 0.0560 | -0.0010 | 0.0000 | |
| 11.156 | 0.0000 | -0.0340 | -0.0100 | -0.0100 | 0.0460 | -0.0010 | 0.0000 | |
| 12.198 | 0.0000 | -0.0340 | -0.0100 | -0.0100 | 0.0560 | -0.0010 | 0.0000 | |
| 13.258 | 0.0000 | -0.0340 | -0.0100 | -0.0100 | 0.0560 | -0.0010 | 0.0000 | |
| 15.313 | 0.0000 | -0.0340 | -0.0200 | -0.0200 | 0.0560 | -0.0020 | 0.0000 | |
| 20.319 | 0.0000 | -0.0450 | -0.0100 | -0.0100 | 0.0450 | -0.0010 | 0.0000 | |
| GRADIENT | 0.0198 | -0.0001 | -0.0000 | -0.0000 | -0.0199 | -0.0000 | 0.0000 | |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

(02F012) (16 JUL 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

MACH
1.397
1.404
1.405
1.399
1.397
1.398
1.399
1.400
1.399
1.398
1.397
1.398
1.399

ALPHA
-9.843
-4.796
2.41
2.776
5.296
6.299
7.385
8.343
9.363
10.468
11.403
12.535
13.492
GRADIENT

RUN NO. 145/ 0 RN/L = 4.98

GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

| ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|---------|---------|--------|---------|---------|---------|---------|
| -.09090 | -.04550 | .00000 | -.03030 | .04540 | -.03030 | -.04080 |
| -.10100 | -.04550 | .00000 | -.03030 | .05550 | -.03030 | -.04080 |
| -.10100 | -.04550 | .00000 | -.03030 | .05550 | -.03030 | -.04080 |
| -.10100 | -.04550 | .00000 | -.03030 | .05550 | -.03030 | -.04080 |
| -.11110 | -.04550 | .00000 | -.03030 | .06560 | -.03030 | -.05100 |
| -.11110 | -.04550 | .00000 | -.03030 | .06560 | -.03030 | -.05100 |
| -.11110 | -.04550 | .00000 | -.03030 | .06560 | -.03030 | -.05100 |
| -.11110 | -.04550 | .00000 | -.03030 | .06560 | -.03030 | -.05100 |
| -.11110 | -.04550 | .00000 | -.03030 | .06560 | -.03030 | -.06110 |
| -.11110 | -.04550 | .00000 | -.03030 | .06560 | -.03030 | -.06110 |
| -.08080 | -.05690 | .00000 | -.03030 | .02390 | -.03030 | -.14540 |
| -.08080 | -.05690 | .00000 | -.03030 | .03530 | -.02020 | .00000 |
| -.00000 | .00000 | .00000 | .00115 | -.00000 | .00115 | .00000 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

MACH
.595
.601
.600
.598
.599
.598
.598
.598
14.403
GRADIENT

RUN NO. 269/ 0 RN/L = 2.97

GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 3.000

| ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|--------|--------|--------|--------|---------|--------|---------|
| .02550 | .02040 | .01150 | .01980 | -.00510 | .00830 | -.03060 |
| .02550 | .02040 | .01150 | .01980 | -.00510 | .00830 | -.03060 |
| .02550 | .02040 | .01150 | .01980 | -.00510 | .00830 | -.03060 |
| .02550 | .02040 | .01150 | .01980 | -.00510 | .00830 | -.03060 |
| .02550 | .02040 | .01150 | .01980 | -.00510 | .00830 | -.03060 |
| .02550 | .02040 | .01150 | .01980 | -.00510 | .00830 | -.03060 |
| .02550 | .02040 | .01150 | .01980 | -.00510 | .00830 | -.03060 |
| .02550 | .02040 | .01150 | .01980 | -.00510 | .00830 | -.03060 |
| .02550 | .02040 | .01150 | .01980 | -.00510 | .00830 | -.03060 |
| .02550 | .02040 | .01150 | .01980 | -.00510 | .00830 | -.03060 |
| .01700 | .02040 | .00000 | .01980 | .00340 | .00830 | -.03060 |
| .01700 | .02040 | .00000 | .01980 | .00340 | .00830 | -.03060 |
| .00000 | .00000 | .00000 | .00197 | .00000 | .00197 | .00000 |

(02F013) (16 JUL 77)

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(02F013) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILLRON = .000 BDFLAP = .000
SPDRK = 25.000 RUDDER = .000
RN/L = 3.000

RUN NO. 272/ 0 RN/L = 2.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH

ALPHA
-5.768
-800
1.723
4.257
6.282
7.276
9.283
11.289
14.249
GRADIENT

ELV-LO .01700
ELV-LI .02040
ELV-RO .01150
ELV-RI .01980
DELL .00340
DELR .00830
DRHL -.06110

ELV-LO .01700
ELV-LI .02040
ELV-RO .01150
ELV-RI .01980
DELL .00340
DELR .00830
DRHL -.06110

ELV-LO .01700
ELV-LI .02040
ELV-RO .01150
ELV-RI .01980
DELL .00340
DELR .00830
DRHL -.06110

ELV-LO .01700
ELV-LI .02040
ELV-RO .01150
ELV-RI .01980
DELL .00340
DELR .00830
DRHL -.06110

RUN NO. 280/ 0 RN/L = 2.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH

ALPHA
-5.054
-.025
2.463
5.006
7.018
8.038
10.083
12.144
15.233
GRADIENT

ELV-LO .01700
ELV-LI .03060
ELV-RO .03450
ELV-RI .03960
DELL .01360
DELR .00510
DRHL .00000

ELV-LO .01700
ELV-LI .03060
ELV-RO .03450
ELV-RI .03960
DELL .01360
DELR .00510
DRHL .00000

ELV-LO .01700
ELV-LI .03060
ELV-RO .03450
ELV-RI .03960
DELL .01360
DELR .00510
DRHL .00000

ELV-LO .01700
ELV-LI .03060
ELV-RO .03450
ELV-RI .03960
DELL .01360
DELR .00510
DRHL .00000

RUN NO. 276/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH

ALPHA
-5.029
-.040
2.498
5.006
7.039
8.067
10.114
12.139
15.217
GRADIENT

ELV-LO .01700
ELV-LI .03060
ELV-RO .02300
ELV-RI .01980
DELL .01360
DELR .00320
DRHL -.03060

ELV-LO .01700
ELV-LI .03060
ELV-RO .02300
ELV-RI .01980
DELL .01360
DELR .00320
DRHL -.03060

ELV-LO .01700
ELV-LI .03060
ELV-RO .02300
ELV-RI .01980
DELL .01360
DELR .00320
DRHL -.03060

ELV-LO .01700
ELV-LI .03060
ELV-RO .02300
ELV-RI .01980
DELL .01360
DELR .00320
DRHL -.03060

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0A145 TABULATED FORCE DATA

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(02F014) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LRCF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPOBRK = 25.000 RUDDER = .000
RN/L = 9.000

RUN NO. 337/ 0 RN/L = 6.93 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|---------|--------|--------|--------|---------|---------|
| .597 | .222 | .01700 | .02040 | .03450 | .01980 | .00340 | -.01470 | -.10190 |
| .597 | 2.788 | .01700 | .02040 | .03450 | .01980 | .00340 | -.01470 | -.11210 |
| .597 | 5.297 | .01700 | .02040 | .03450 | .01980 | .00340 | -.01470 | -.05100 |
| .596 | 6.268 | .01700 | .02040 | .03450 | .01980 | .00340 | -.01470 | -.11210 |
| .597 | 7.257 | .01700 | .02040 | .03450 | .01980 | .00340 | -.01470 | -.09170 |
| .597 | 8.105 | .01700 | .02040 | .03450 | .01980 | .00340 | -.01470 | -.07130 |
| .597 | 9.075 | .01700 | .02040 | .03450 | .01980 | .00340 | -.01470 | .00000 |
| .596 | 10.005 | .01700 | .02040 | .04590 | .01980 | .00340 | -.02610 | .00000 |
| | GRADIENT | .00000 | -.00000 | .00000 | .00000 | .00000 | .00000 | -.00398 |

RUN NO. 338/ 0 RN/L = 7.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|--------|---------|---------|
| .800 | .261 | .02550 | .03060 | .03450 | .00990 | .00510 | -.02460 | -.14270 |
| .800 | 2.652 | .02550 | .03060 | .03450 | .01980 | .00510 | -.01470 | .02080 |
| .799 | 5.188 | .02550 | .03060 | .02300 | .01980 | .00510 | -.00320 | -.04080 |
| .799 | 6.084 | .02550 | .03060 | .02300 | .01980 | .00510 | -.00320 | .01040 |
| .801 | 7.145 | .03400 | .03060 | .03450 | .01980 | .00340 | -.01470 | .00000 |
| .803 | 8.132 | .02550 | .03060 | .03450 | .01980 | .00510 | -.01470 | -.01020 |
| .799 | 9.138 | .02550 | .03060 | .02300 | .00990 | .00510 | -.01310 | -.06110 |
| | 10.141 | .03400 | .03060 | .03450 | .01980 | .00340 | -.01470 | .00000 |
| | GRADIENT | .00000 | .00000 | .00000 | .00414 | .00000 | .00414 | .06840 |

RUN NO. 382/ 0 RN/L = 8.70 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|---------|---------|---------|---------|
| .899 | -.297 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | .03110 |
| .898 | 2.259 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | .00000 |
| .898 | 4.862 | .01700 | .01020 | .02300 | .01980 | -.00680 | -.00320 | -.04080 |
| .899 | 5.917 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.15290 |
| .896 | 6.931 | .01700 | .01020 | .00000 | .01980 | -.00680 | .01980 | -.12230 |
| .899 | 8.023 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.19360 |
| .898 | 9.053 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | .08310 |
| .899 | 10.082 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | .07270 |
| .899 | 11.153 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | .01040 |
| .898 | 12.120 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | .01040 |
| .900 | 13.148 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.01020 |
| .900 | 15.246 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | .08310 |
| | GRADIENT | .00000 | .00000 | .00224 | -.00000 | .00000 | -.00224 | -.01394 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(02F014) (16 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDRK = 25.000 RUDDER = .000
RN/L = 9.000

RUN NO. 381/ 0 RN/L = 8.80 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|---------|---------|---------|
| .948 | -.288 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -.04080 |
| .947 | 2.281 | .03400 | .01020 | .01150 | .02970 | -.02380 | .01820 | -.01020 |
| .947 | 4.907 | .03400 | .01020 | .02300 | .02970 | -.02380 | .00670 | -.01020 |
| .948 | 5.952 | .03400 | .01020 | .02300 | .02970 | -.02380 | .00670 | .00000 |
| .948 | 6.981 | .03400 | .01020 | .02300 | .02970 | -.02380 | .00670 | -.02040 |
| .949 | 8.066 | .02550 | .01020 | .02300 | .02970 | -.01530 | .00670 | .00000 |
| .948 | 9.088 | .00850 | .01020 | .02300 | .02970 | .00170 | .00670 | .16610 |
| .948 | 10.087 | .01700 | .01020 | .02300 | .02970 | -.00680 | .00670 | -.05100 |
| .948 | 11.132 | .01700 | .01020 | .02300 | .02970 | -.00680 | .00670 | .00000 |
| .949 | 12.179 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -.01020 |
| .947 | 13.176 | .00850 | .01020 | .02300 | .01980 | .00170 | -.00320 | -.04080 |
| .949 | 15.287 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | .05190 |
| .949 | GRADIENT | .00163 | .00000 | .00222 | .00000 | -.00163 | -.00222 | .00587 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

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AMES 118-1-11 0A145A 01

(02F015) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BOFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 193/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|---------|---------|---------|
| .600 | -9.706 | -.08080 | -.06830 | -.01000 | -.02020 | .01250 | -.01020 | -.01020 |
| .600 | -4.798 | -.09090 | -.06830 | -.01000 | -.02020 | .02260 | -.01020 | -.01020 |
| .602 | .224 | -.09090 | -.06830 | -.01000 | -.02020 | .02260 | -.01020 | -.01020 |
| .600 | 2.842 | -.09090 | -.06830 | -.01000 | -.02020 | .02260 | -.01020 | .00000 |
| .600 | 5.371 | -.09090 | -.06830 | -.01000 | -.02020 | .02260 | -.01020 | .00000 |
| .600 | 6.305 | -.09090 | -.05690 | -.01000 | -.02020 | .03400 | -.01020 | -.01020 |
| .600 | 7.269 | -.09090 | -.06830 | -.01000 | -.02020 | .02260 | -.01020 | .00000 |
| .600 | 8.268 | -.09090 | -.06830 | -.01000 | -.02020 | .02260 | -.01020 | -.01020 |
| .600 | 9.251 | -.09090 | -.05690 | -.01000 | -.02020 | .03400 | -.01020 | .00000 |
| .600 | 10.277 | -.09090 | -.05690 | -.01000 | -.02020 | .03270 | -.01020 | .00000 |
| .600 | 11.299 | -.10100 | -.06830 | -.01000 | -.02020 | .00240 | -.01020 | .00000 |
| .600 | 12.331 | -.07070 | -.06830 | -.01000 | -.02020 | .01380 | -.00020 | .00000 |
| .599 | 13.327 | -.07070 | -.05690 | -.02000 | -.02020 | .00240 | -.01020 | .00000 |
| .600 | 15.363 | -.07070 | -.06830 | -.01000 | -.02020 | .00240 | -.01020 | -.01020 |
| .599 | 19.683 | -.07070 | -.06830 | -.01000 | -.02020 | .00000 | -.00000 | -.02040 |
| | GRADIENT | .00000 | -.00000 | .00000 | -.00000 | -.00000 | -.00000 | .00116 |

RUN NO. 121/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|---------|--------|---------|
| .797 | -10.386 | -.07070 | -.05690 | -.08000 | -.01010 | .01380 | .06990 | -.16310 |
| .800 | -5.163 | -.07070 | -.05690 | -.10000 | -.01010 | .01380 | .08990 | -.17330 |
| .801 | -.112 | -.07070 | -.04550 | -.10000 | -.01010 | .02520 | .08990 | -.17330 |
| .798 | 2.523 | -.07070 | -.05690 | -.10000 | -.01010 | .01380 | .08990 | -.16310 |
| .797 | 5.189 | -.07070 | -.05690 | -.09000 | -.01010 | .01380 | .07990 | -.17330 |
| .797 | 6.087 | -.07070 | -.05690 | -.09000 | -.02020 | .01380 | .06980 | -.17330 |
| .798 | 7.216 | -.07070 | -.05690 | -.10000 | -.01010 | .01380 | .08990 | -.18340 |
| .800 | 8.191 | -.08080 | -.04550 | -.09000 | -.01010 | .03530 | .07990 | -.17330 |
| .798 | 9.234 | -.08080 | -.05690 | -.09000 | -.01010 | .03400 | .07990 | -.16310 |
| .797 | 10.179 | -.09090 | -.05690 | -.10000 | -.02020 | .01380 | .07980 | -.14270 |
| .799 | 11.252 | -.07070 | -.05690 | -.10000 | -.02020 | .03400 | .07980 | -.17330 |
| .799 | 12.234 | -.09090 | -.05690 | -.10000 | -.01010 | .01380 | .07990 | -.18340 |
| .797 | 13.260 | -.07070 | -.05690 | -.09000 | -.02020 | .04540 | .06980 | -.17330 |
| .797 | 15.376 | -.09090 | -.04550 | -.09000 | -.02020 | .02390 | .06980 | -.24460 |
| .799 | 20.408 | -.08080 | -.05690 | -.09000 | -.00000 | -.00433 | .00000 | .00387 |
| | GRADIENT | .00000 | -.00433 | .00000 | .00000 | -.00433 | .00000 | .00387 |

DATE 10 MAR 80

OAI145 TABULATED FORCE DATA

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(02F015) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 172/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|---------|---------|---------|--------|---------|---------|
| .901 | -9.864 | -.09090 | -.04550 | -.01000 | -.02020 | .04540 | -.01020 | -.08150 |
| .900 | -4.787 | -.09090 | -.04550 | -.03000 | -.02020 | .04540 | .00980 | -.07130 |
| .901 | .250 | -.09090 | -.03420 | -.03000 | -.02020 | .05680 | .00980 | -.09170 |
| .899 | 2.873 | -.11110 | -.03420 | -.02000 | -.02020 | .07700 | .00980 | -.04080 |
| .900 | 5.519 | -.08080 | -.04550 | -.02000 | -.02020 | .03530 | -.00020 | -.02040 |
| .899 | 6.559 | -.08080 | -.03420 | -.04000 | -.02020 | .04660 | .01980 | .00000 |
| .900 | 7.586 | -.09090 | -.04550 | -.01000 | -.02020 | .04540 | -.01020 | .00000 |
| .900 | 8.564 | -.11110 | -.04550 | -.02000 | -.02020 | .06560 | -.00020 | .03110 |
| .900 | 9.608 | -.08080 | -.04550 | -.02000 | -.02020 | .03530 | -.00020 | .03110 |
| .899 | 10.632 | -.09090 | -.04550 | -.03000 | -.02020 | .04540 | .00980 | .06230 |
| .893 | 11.631 | -.08080 | -.04550 | -.01000 | -.02020 | .03530 | -.01020 | .05190 |
| .899 | 12.666 | -.08080 | -.04550 | -.01000 | -.02020 | .03530 | .01020 | .06230 |
| .900 | 13.662 | -.10100 | -.04550 | -.02000 | -.02020 | .05550 | -.00020 | .07270 |
| .900 | 15.729 | -.09090 | -.04550 | -.02000 | -.02020 | .04540 | -.00020 | .17650 |
| .899 | 20.607 | -.08080 | -.04550 | -.02000 | -.02020 | .03530 | -.00020 | -.01020 |
| GRADIENT | | -.00228 | .00158 | .00000 | .00000 | .00388 | -.00000 | .00291 |

RUN NO. 132/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|---------|---------|---------|--------|---------|---------|
| .951 | -5.544 | -.10100 | -.05690 | -.02000 | -.02020 | .04410 | -.00020 | .00000 |
| .951 | -.107 | -.09090 | -.05690 | -.02000 | -.02020 | .03400 | -.00020 | .00000 |
| .952 | 2.460 | -.09090 | -.05690 | -.02000 | -.01010 | .03400 | .00990 | .00000 |
| .950 | 5.223 | -.10100 | -.05690 | -.03000 | -.02020 | .04410 | .00980 | .00000 |
| .951 | 6.190 | -.10100 | -.05690 | -.02000 | -.02020 | .04410 | -.00020 | .00000 |
| .950 | 7.175 | -.10100 | -.04550 | -.02000 | -.01010 | .05550 | .00990 | .00000 |
| .949 | 8.122 | -.10100 | -.05690 | -.02000 | -.01010 | .04410 | .00990 | .00000 |
| .950 | 9.166 | -.10100 | -.04550 | -.03000 | -.01010 | .05550 | .01990 | .00000 |
| .946 | 10.146 | -.10100 | -.05690 | -.03000 | -.02020 | .04410 | .00980 | .00000 |
| .947 | 11.208 | -.10100 | -.05690 | -.02000 | -.02020 | .04410 | -.00020 | -.01020 |
| .948 | 12.203 | -.10100 | -.05690 | -.03000 | -.02020 | .04410 | .00980 | -.01020 |
| .946 | 13.207 | -.09090 | -.05690 | -.02000 | -.02020 | .03400 | -.00020 | -.01020 |
| .948 | 15.282 | -.10100 | -.05690 | -.03000 | -.02020 | .04410 | .00980 | -.01020 |
| .947 | 20.288 | -.09090 | -.05690 | -.02000 | -.02020 | .03400 | -.00020 | .00000 |
| GRADIENT | | .00000 | .00000 | .00000 | .00393 | .00000 | .00393 | .00000 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 56/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|---------|---------|---------|--------|--------|---------|--------|
| 1.200 | -11.058 | -11110 | -03420 | -01000 | -01010 | .07700 | -.00010 | .00000 |
| 1.203 | -5.670 | -12120 | -04550 | -01000 | -01010 | .07570 | -.00010 | .00000 |
| 1.202 | .048 | -10100 | -03420 | .02300 | -01010 | .06690 | -.03310 | .00000 |
| 1.199 | 2.866 | -12120 | -04550 | .00000 | -01010 | .07570 | -.01010 | .00000 |
| 1.201 | 5.812 | -12120 | -03420 | .00000 | -01010 | .08710 | -.01010 | .00000 |
| 1.201 | 6.992 | -11110 | -03420 | .00000 | .00000 | .07700 | .00000 | .00000 |
| 1.200 | 8.163 | -11110 | -03420 | -.02000 | .00000 | .07700 | .02000 | .00000 |
| 1.198 | 9.315 | -12120 | -03420 | .00000 | -01010 | .08710 | -.01010 | .00000 |
| 1.198 | 10.472 | -10100 | -04550 | -.01000 | -01010 | .05550 | -.00010 | .00000 |
| 1.198 | 11.618 | -11110 | -04550 | -.02000 | .00000 | .06560 | .02000 | .00000 |
| 1.200 | 12.761 | -11110 | -03420 | .00000 | -01010 | .07700 | -.01010 | .00000 |
| 1.198 | 13.896 | -11110 | -03420 | -.01000 | .00000 | .07700 | .01000 | .00000 |
| 1.196 | 15.024 | -12120 | -04550 | -.02000 | -01010 | .08570 | .00990 | .00000 |
| 1.192 | 17.262 | -13130 | -04550 | -.02000 | .00000 | .08580 | .02000 | .00000 |
| 1.192 | 20.910 | -.08080 | -03420 | -.01000 | -01010 | .04660 | -.00010 | .00000 |
| GRADIENT | | -.00717 | -.00401 | -.00816 | .00000 | .00312 | .00816 | .00000 |

RUN NO. 55/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LJ | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|---------|--------|---------|---------|--------|---------|--------|
| 1.205 | -10.587 | -10100 | -03420 | -.02000 | -.02020 | .06690 | -.00020 | .00000 |
| 1.302 | -5.627 | -10100 | -03420 | -.01000 | -01010 | .06690 | -.00010 | .00000 |
| 1.302 | -.270 | -10100 | -04550 | -.01000 | -01010 | .05550 | -.00010 | .00000 |
| 1.299 | .033 | -10100 | -04550 | .00000 | .00000 | .05550 | .00000 | .00000 |
| 1.298 | 2.532 | -11110 | -02280 | -.01000 | -.02020 | .08830 | -.01020 | .00000 |
| 1.295 | 5.468 | -10100 | -03420 | .00000 | -01010 | .06690 | -.01010 | .00000 |
| 1.296 | 6.642 | -11110 | -03420 | .00000 | -01010 | .07700 | -.01010 | .00000 |
| 1.298 | 7.815 | -10100 | -04550 | -.01000 | .00000 | .05550 | .01000 | .00000 |
| 1.297 | 8.974 | -10100 | -04550 | -.02000 | -01010 | .05550 | .00990 | .00000 |
| 1.296 | 10.118 | -09090 | -03420 | -.01000 | -01010 | .05680 | -.00010 | .00000 |
| 1.295 | 11.267 | -10100 | -03420 | -.01000 | .00000 | .06690 | .01000 | .00000 |
| 1.294 | 12.431 | -10100 | -02280 | -.02000 | -01010 | .07820 | .00990 | .00000 |
| 1.294 | 13.583 | -11110 | -04550 | -.02000 | -01010 | .06560 | .00990 | .00000 |
| 1.294 | 14.674 | -10100 | -04550 | -.01000 | -01010 | .05550 | -.00010 | .00000 |
| 1.290 | 16.895 | -10100 | -04550 | -.02000 | -.02020 | .05550 | -.00020 | .00000 |
| 1.284 | 20.625 | -11110 | -04550 | .00000 | -01010 | .06560 | -.01010 | .00000 |
| GRADIENT | | -.00377 | .00848 | -.00155 | -.00534 | .01225 | -.00379 | .00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1293

(02F015) (16 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 146/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|---------|---------|--------|---------|---------|
| 1.401 | -5.029 | -.07070 | -.04550 | .00000 | -.03030 | .02520 | -.03030 | .09340 |
| 1.402 | .218 | -.09090 | -.04550 | .00000 | -.02020 | .04540 | -.02020 | -.05100 |
| 1.401 | 2.828 | -.09090 | -.04550 | .00000 | -.03030 | .04540 | -.03030 | -.05100 |
| 1.403 | 5.476 | -.09090 | -.04550 | .00000 | -.02020 | .04540 | -.02020 | -.05100 |
| 1.403 | 6.498 | -.09090 | -.04550 | .00000 | -.02020 | .04540 | -.02020 | -.05100 |
| 1.402 | 7.566 | -.09090 | -.04550 | .00000 | -.02020 | .03400 | -.02020 | -.05100 |
| 1.402 | 8.523 | -.09090 | -.04550 | -.01000 | -.02020 | .04540 | -.01020 | -.05100 |
| 1.400 | 9.566 | -.10100 | -.04550 | -.02000 | -.02020 | .05550 | -.00020 | -.05100 |
| 1.401 | 10.620 | -.09090 | -.04550 | .01150 | -.02020 | .04540 | -.03170 | -.05100 |
| 1.400 | 11.521 | -.09090 | -.04550 | .01150 | -.02020 | .04540 | -.03170 | -.06110 |
| | GRADIENT | -.00000 | .00000 | .00000 | -.00387 | .00000 | -.00387 | .00000 |

AMES 118-1-11 OAI45A 01

(02F016) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = -5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 3.000

RUN NO. 278/ 0 RN/L = 2.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|--------|--------|--------|--------|---------|---------|
| .896 | -6.223 | .02550 | .03060 | .03450 | .01980 | .00510 | -.01470 | .02080 |
| .899 | -2.118 | .02550 | .03060 | .03450 | .02970 | .00510 | -.00480 | -.04080 |
| .899 | -1.069 | .02550 | .03060 | .03450 | .02970 | .00510 | -.00480 | -.06110 |
| .899 | .067 | .02550 | .03060 | .03450 | .02970 | .00510 | -.00480 | -.22420 |
| .897 | .492 | .02550 | .03060 | .03450 | .02970 | .00510 | -.00480 | -.08150 |
| .897 | 1.009 | .02550 | .03060 | .03450 | .02970 | .00510 | -.00480 | -.09170 |
| .896 | 2.048 | .02550 | .03060 | .03450 | .02970 | .00510 | -.00480 | -.09170 |
| .896 | 3.080 | .01700 | .03060 | .03450 | .03960 | .01360 | .00510 | -.09170 |
| .895 | 4.111 | .00850 | .03060 | .03450 | .03960 | .02210 | .00510 | -.10190 |
| .895 | 5.171 | .00850 | .03060 | .03450 | .02970 | .02210 | -.00480 | -.20380 |
| | GRADIENT | -.00238 | .00000 | .00000 | .00173 | .00238 | .00173 | -.00456 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

(02F016) (16 JUL 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = -5.000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 3.000

RUN NO. 277/ 0 RN/L = 2.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|--------|--------|---------|---------|---------|
| .962 | -6.230 | .02550 | .03060 | .02300 | .02970 | .00510 | .00670 | -.03060 |
| .952 | -2.128 | .02550 | .03060 | .03450 | .02970 | .00510 | -.00480 | -.36690 |
| .950 | -1.076 | .01700 | .03060 | .03450 | .02970 | .01360 | -.00480 | -.32610 |
| .951 | -.024 | .02550 | .03060 | .02300 | .02970 | .00510 | .00670 | .34260 |
| .952 | .495 | .02550 | .03060 | .02300 | .02970 | .00510 | .00670 | .22840 |
| .951 | 1.009 | .02550 | .02040 | .03450 | .02970 | -.00510 | -.00480 | -.38730 |
| .948 | 2.050 | .01700 | .02040 | .03450 | .02970 | .00340 | -.00480 | .01040 |
| .948 | 3.079 | .01700 | .02040 | .03450 | .02970 | .00340 | -.00480 | -.01020 |
| .950 | 4.131 | .01700 | .02040 | .03450 | .02970 | .00340 | -.00480 | .16310 |
| .949 | 6.175 | .02550 | .02040 | .03450 | .02970 | -.00510 | -.00480 | -.26500 |
| | GRADIENT | -.00123 | -.00217 | .00053 | .00000 | -.00094 | -.00053 | .02599 |

(02F017) (16 JUL 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 185/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|--------|---------|--------|---------|--------|
| .597 | -6.196 | -.05050 | -.04550 | .00000 | -.02020 | .00500 | -.02020 | .00000 |
| .599 | -2.146 | -.05050 | -.04550 | .00000 | -.03030 | .00500 | -.03030 | .00000 |
| .600 | -1.090 | -.07070 | -.03420 | .00000 | -.03030 | .03650 | -.03030 | .00000 |
| .599 | -.004 | -.09090 | -.03420 | .00000 | -.03030 | .05680 | -.03030 | .00000 |
| .599 | .542 | -.06060 | -.04550 | .00000 | -.03030 | .01510 | -.03030 | .00000 |
| .599 | 1.077 | -.05050 | -.04550 | .00000 | -.02020 | .00500 | -.02020 | .00000 |
| .599 | 2.154 | -.06060 | -.04550 | .00000 | -.03030 | .01510 | -.03030 | .00000 |
| .598 | 3.204 | -.07070 | -.04550 | .00000 | -.02020 | .02520 | -.02020 | .00000 |
| .599 | 4.243 | -.08080 | -.04550 | .00000 | -.02020 | .03530 | -.02020 | .00000 |
| .598 | 6.294 | -.08080 | -.04550 | .00000 | -.03030 | .03530 | -.03030 | .00000 |
| | GRADIENT | -.00209 | -.00108 | .00000 | .00174 | .00100 | .00174 | .00000 |

(02F017) (16 JUL 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 113/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|--------|---------|---------|
| .799 | -6.207 | -0.0800 | -0.0550 | -0.0100 | -0.0300 | .0350 | -.0200 | .0830 |
| .798 | -2.127 | -0.0800 | -0.0420 | -0.0400 | -0.0300 | .0460 | .2090 | .0510 |
| .798 | -1.060 | -0.0700 | -0.0340 | -0.2900 | -0.0200 | .0360 | .2690 | .0410 |
| .798 | .046 | -0.0700 | -0.0340 | -0.3500 | -0.0300 | .0360 | .3190 | .0310 |
| .798 | .582 | -0.0800 | -0.0340 | -0.2700 | -0.0200 | .0460 | .2490 | .0200 |
| .798 | 1.118 | -0.0800 | -0.0340 | -0.3200 | -0.0200 | .0460 | .2990 | .0100 |
| .799 | 2.202 | -0.0800 | -0.0450 | -0.3300 | -0.0200 | .0350 | .3090 | .0000 |
| .798 | 3.260 | -0.0800 | -0.0340 | -0.1100 | -0.0200 | .0460 | .0890 | -.0300 |
| .798 | 4.307 | -0.0800 | -0.0340 | -0.0900 | -0.0200 | .0460 | .0690 | -.0710 |
| .796 | 6.376 | -0.0800 | -0.0340 | -0.3500 | -0.0100 | .0460 | .3390 | -.1320 |
| | GRADIENT | -.00096 | -.00040 | .02749 | .00129 | .00056 | -.02620 | -.01817 |

RUN NO. 101/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|--------|---------|--------|--------|---------|
| .900 | -7.192 | -0.0800 | -0.0550 | .0000 | -0.0300 | .0230 | -.0300 | .1240 |
| .902 | -6.231 | -0.0800 | -0.0450 | .0000 | -0.0300 | .0350 | -.0300 | .1030 |
| .902 | -2.116 | -0.0800 | -0.0560 | .0000 | -0.0400 | .0230 | -.0400 | .0410 |
| .902 | -1.047 | -0.0800 | -0.0450 | .0000 | -0.0300 | .0350 | -.0300 | .0310 |
| .902 | .014 | -0.0700 | -0.0560 | .0000 | -0.0300 | .0130 | -.0300 | .0000 |
| .902 | .588 | -0.0900 | -0.0560 | .0000 | -0.0200 | .0340 | -.0200 | .0000 |
| .901 | 1.124 | -0.0800 | -0.0450 | .0000 | -0.0200 | .0350 | -.0200 | .0000 |
| .900 | 2.209 | -0.0900 | -0.0450 | .0000 | -0.0200 | .0450 | -.0200 | .0000 |
| .902 | 3.266 | -0.0900 | -0.0560 | .0000 | -0.0200 | .0400 | -.0200 | -.0200 |
| .900 | 4.314 | -0.0900 | -0.0450 | .0000 | -0.0200 | .0450 | -.0200 | -.0400 |
| .899 | 6.386 | -0.0900 | -0.0450 | .0000 | -0.0400 | .0450 | -.0400 | -.0710 |
| .899 | 7.418 | -0.1000 | -0.0560 | .0000 | -0.0900 | .0410 | -.0900 | -.0910 |
| | GRADIENT | -.00224 | .00085 | .00000 | .00292 | .00309 | .00292 | -.01149 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1296

(02F017) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 125/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|---------|---------|---------|---------|--------|--------|
| .951 | -6.164 | -.09090 | -.04550 | -.04000 | -.02020 | .04540 | .01980 | .00000 |
| .952 | -1.988 | -.09090 | -.04550 | -.04000 | -.02020 | .04540 | .01980 | .00000 |
| .951 | -.913 | -.09090 | -.05690 | -.04000 | -.02020 | .03400 | .01980 | .00000 |
| .951 | .159 | -.09090 | -.04550 | -.04000 | -.01010 | .04540 | .02990 | .00000 |
| .951 | .684 | -.09090 | -.05690 | -.04000 | -.01010 | .03400 | .02990 | .00000 |
| .951 | 1.216 | -.09090 | -.05690 | -.04000 | -.01010 | .04410 | .02990 | .00000 |
| .950 | 2.285 | -.10100 | -.05690 | -.04000 | .00000 | .04540 | .04000 | .00000 |
| .951 | 3.325 | -.09090 | -.04550 | -.04000 | -.02020 | .03400 | .01980 | .00000 |
| .951 | 4.365 | -.09090 | -.05690 | -.04000 | -.02020 | .04540 | .01980 | .00000 |
| .948 | 6.402 | -.09090 | -.04550 | -.04000 | -.02020 | .04540 | .01980 | .00000 |
| GRADIENT | | -.00036 | -.00069 | .00000 | .00132 | -.00033 | .00132 | .00000 |

RUN NO. 162/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|---------|---------|---------|---------|--------|---------|
| 1.200 | -6.282 | -.08080 | -.02280 | -.02000 | -.01010 | .05800 | .00990 | -.20380 |
| 1.203 | -2.166 | -.08080 | -.02280 | -.02000 | -.02020 | .05800 | .00020 | -.32610 |
| 1.200 | -1.096 | -.08080 | -.02280 | -.02000 | -.02020 | .05800 | .00020 | -.36690 |
| 1.201 | .014 | -.08080 | -.02280 | -.02000 | -.02020 | .05800 | .00020 | -.39750 |
| 1.200 | .550 | -.08080 | -.02280 | -.02000 | -.02020 | .05800 | .00020 | .19730 |
| 1.199 | 1.095 | -.08080 | -.02280 | -.02000 | -.02020 | .05800 | .00020 | .09340 |
| 1.198 | 2.177 | -.08080 | -.02280 | -.02000 | -.02020 | .05800 | .00020 | .06230 |
| 1.199 | 3.241 | -.07070 | -.03420 | -.02000 | -.02020 | .03650 | .00020 | .01040 |
| 1.199 | 4.291 | -.08080 | -.03420 | -.02000 | -.02020 | .04660 | .00020 | .00000 |
| 1.196 | 6.373 | -.08080 | -.03420 | -.02000 | -.02020 | .04660 | .00020 | -.04080 |
| GRADIENT | | .00069 | -.00191 | .00000 | .00000 | -.00260 | .00000 | .06760 |

RUN NO. 133/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|---------|---------|---------|--------|--------|---------|
| 1.295 | -6.261 | -.07070 | -.05690 | -.02000 | -.02020 | .01380 | .00020 | .05190 |
| 1.301 | -2.146 | -.07070 | -.05690 | -.02000 | -.02020 | .01380 | .00020 | .03110 |
| 1.295 | -1.074 | -.07070 | -.05690 | -.03000 | -.02020 | .01380 | .00980 | .03110 |
| 1.296 | .039 | -.07070 | -.05690 | -.03000 | -.02020 | .01380 | .00980 | .02080 |
| 1.297 | .579 | -.07070 | -.05690 | -.02000 | -.02020 | .01380 | .00020 | .01040 |
| 1.298 | 1.118 | -.07070 | -.05690 | -.02000 | -.02020 | .01380 | .00020 | .01040 |
| 1.296 | 2.208 | -.07070 | -.05690 | -.03000 | -.01010 | .01380 | .01990 | .00000 |
| 1.297 | 3.274 | -.07070 | -.05690 | -.03000 | -.01010 | .01380 | .01990 | .00000 |
| 1.297 | 4.332 | -.07070 | -.05690 | -.03000 | -.02020 | .01380 | .00980 | -.01020 |
| 1.295 | 6.408 | -.07070 | -.05690 | -.03000 | -.02020 | .01380 | .00980 | -.05100 |
| GRADIENT | | -.00000 | -.00000 | -.00108 | .00104 | .00000 | .00212 | -.00676 |

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OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(D2F017) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

ALPHA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPOBRK = 25.000 RUDDER = .000
RN/L = 5.000

PARAMETRIC DATA

RUN NO. 152/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|
| 1.398 | -6.323 | -.08080 | -.03420 | -.01000 | -.02020 | .04560 | -.01020 | -.04080 |
| 1.406 | -2.187 | -.09090 | -.03420 | -.01000 | -.01010 | .05680 | -.00010 | -.16310 |
| 1.405 | -1.111 | -.08080 | -.03420 | -.01000 | -.01010 | .04560 | -.00010 | -.16310 |
| 1.404 | .008 | -.08080 | -.03420 | -.01000 | -.01010 | .04560 | -.00010 | -.17330 |
| 1.403 | .551 | -.08080 | -.03420 | -.01000 | -.01010 | .04560 | -.00010 | -.17330 |
| 1.402 | 1.093 | -.08080 | -.03420 | -.02000 | -.01010 | .04560 | .00990 | -.17330 |
| 1.400 | 2.193 | -.08080 | -.03420 | -.01000 | -.01010 | .04560 | -.00010 | -.08150 |
| 1.400 | 3.261 | -.08080 | -.03420 | -.02000 | -.01010 | .04560 | .00990 | -.06110 |
| 1.400 | 4.318 | -.08080 | -.03420 | -.01000 | -.01010 | .04560 | -.00010 | -.03060 |
| 1.397 | 6.416 | -.08080 | -.03420 | -.02000 | -.01010 | .04560 | .00990 | -.03060 |
| | GRADIENT | .00097 | -.00000 | -.00070 | -.00000 | -.00098 | .00070 | .02329 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

ALPHA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPOBRK = 25.000 RUDDER = .000
RN/L = 5.000

PARAMETRIC DATA

RUN NO. 186/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|---------|---------|--------|
| .598 | -6.033 | -.09090 | -.04550 | .00000 | -.03030 | .04540 | -.03030 | .00000 |
| .599 | -1.887 | -.09090 | -.04550 | .00000 | -.03030 | .04540 | -.03030 | .00000 |
| .598 | -.865 | -.05050 | -.04550 | .00000 | -.03030 | .00500 | -.03030 | .00000 |
| .599 | .086 | -.05050 | -.04550 | .00000 | -.03030 | .00500 | -.03030 | .00000 |
| .599 | .559 | -.06060 | -.04550 | .00000 | -.03030 | .01510 | -.03030 | .00000 |
| .599 | 1.066 | -.06060 | -.04550 | .00000 | -.02020 | .01510 | -.02020 | .00000 |
| .599 | 2.135 | -.05050 | -.04550 | .00000 | -.03030 | .00500 | -.03030 | .00000 |
| .600 | 3.191 | -.05050 | -.04550 | .00000 | -.02020 | .00500 | -.02020 | .00000 |
| .599 | 4.263 | -.06060 | -.04550 | .00000 | -.02020 | .01510 | -.02020 | .00000 |
| .599 | 6.350 | -.06060 | -.04550 | -.01000 | -.02020 | .01510 | -.01020 | .00000 |
| | GRADIENT | .00312 | -.00000 | .00000 | .00182 | -.00312 | .00182 | .00000 |

AMES 118-1-11 OAI45A 01

(D2F018) (16 JUL 77)

AMES 118-1-11 0A145A 01

(02F018) (16 JUL 77)

REFERENCE DATA

| | | | | | | | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|--------|--------|---|--------|--------|---|------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. X0 | ALPHA | = | 5.000 | ELEVON | = | .000 |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. Y0 | ALIRON | = | .000 | BOFLAP | = | .000 |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. Z0 | SPOBRK | = | 25.000 | RUDDER | = | .000 |
| SCALE | = | .0500 | | | | | | RN/L | = | 5.000 | | | |

PARAMETRIC DATA

| RUN NO. | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-R1 | DELL | DEL R | DRHL |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| -6.048 | - .08080 | - .04550 | - .10000 | - .10000 | - .02020 | .03530 | .07980 | .08310 |
| -1.851 | - .08080 | - .03420 | - .11000 | - .11000 | - .02020 | .04660 | .08980 | .04150 |
| - .778 | - .08080 | - .04550 | - .10000 | - .10000 | - .01010 | .03530 | .08990 | .03110 |
| .076 | - .08080 | - .04550 | - .10000 | - .10000 | - .02020 | .03530 | .07980 | .00000 |
| .451 | - .08080 | - .04550 | - .09000 | - .09000 | - .02020 | .03530 | .06980 | .00000 |
| .976 | - .08080 | - .04550 | - .08000 | - .08000 | - .03030 | .03530 | .04970 | .00000 |
| 2.072 | - .08080 | - .04550 | - .08000 | - .08000 | - .02020 | .03530 | .05980 | - .01020 |
| 3.141 | - .08080 | - .04550 | - .07000 | - .07000 | - .02020 | .03530 | .04980 | - .04080 |
| 4.196 | - .08080 | - .04550 | - .07000 | - .07000 | - .03030 | .03530 | .03970 | - .07130 |
| 6.262 | - .08080 | - .04550 | - .07000 | - .07000 | - .02020 | .03530 | .04980 | - .12230 |
| GRADIENT | - .00000 | - .00115 | .00707 | - .00175 | - .00115 | - .00115 | - .00882 | - .01755 |

| RUN NO. | 97/ 0 | RN/L = | 4.91 | GRADIENT | INTERVAL = | -5.00/ | 5.00 | DRHL |
|----------|----------|---------|---------|----------|------------|---------|--------|------|
| BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | | |
| -7.097 | - .10100 | -.02280 | -.01000 | -.02020 | .07820 | -.01020 | .00000 | |
| -6.090 | - .10100 | -.03420 | -.01000 | -.03030 | .06590 | -.02030 | .00000 | |
| -1.869 | - .11110 | -.02280 | -.01000 | -.02020 | .08830 | -.01020 | .00000 | |
| - .807 | - .11110 | -.03420 | -.03000 | -.02020 | .07700 | .00980 | .00000 | |
| .076 | -.09090 | -.02280 | -.03000 | -.02020 | .06810 | .00980 | .00000 | |
| .465 | -.08080 | -.02280 | -.01000 | -.02020 | .05800 | -.01020 | .00000 | |
| .988 | -.08080 | -.02280 | .00000 | -.01010 | .05800 | -.01010 | .00000 | |
| 2.083 | -.08080 | -.02280 | .00000 | -.01010 | .05800 | -.01010 | .00000 | |
| 3.156 | -.09090 | -.01140 | .00000 | -.02020 | .07950 | -.02020 | .00000 | |
| 4.212 | -.08080 | -.02280 | .00000 | -.02020 | .05800 | -.02020 | .00000 | |
| 6.279 | -.08080 | -.02280 | .00000 | -.02020 | .05800 | -.02020 | .00000 | |
| 7.317 | -.09090 | -.02280 | -.01000 | -.02020 | .06810 | -.01020 | .00000 | |
| GRADIENT | .00461 | .00157 | .03414 | .00035 | -.00304 | -.00379 | .00000 | |

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OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(02F018) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 ELEVON = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BOFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPOBRK = 25.000 RUDDER = .000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

| RUN NO. 432/ 0 | | RN/L = 5.02 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|--------|---------------------------------|--------|
| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI |
| 1.100 | -6.205 | .00000 | .01020 | .01150 | .02970 |
| 1.101 | -2.066 | .00000 | .01020 | .00000 | .02970 |
| 1.101 | -1.019 | .00000 | .01020 | .01150 | .02970 |
| 1.102 | .042 | .00000 | .01020 | .01150 | .02970 |
| 1.100 | .561 | .00000 | .01020 | .01150 | .02970 |
| 1.100 | 1.092 | .00000 | .01020 | .00000 | .02970 |
| 1.101 | 2.139 | .00000 | .01020 | .01150 | .02970 |
| 1.100 | 3.176 | .00850 | .01020 | .01150 | .02970 |
| 1.101 | 4.219 | .00000 | .01020 | .00000 | .02970 |
| 1.100 | 6.313 | .00850 | .01020 | .01150 | .02970 |
| 1.100 | GRADIENT | .00059 | .00000 | .00007 | .00000 |
| | | | | | DEL |
| | | | | | DELL |
| | | | | | DEL |
| | | | | | DELR |
| | | | | | DRHL |

| RUN NO. 163/ 0 | | RN/L = 5.02 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|--------|---------------------------------|--------|
| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI |
| 1.201 | -6.143 | .08080 | .02280 | .02000 | .02020 |
| 1.201 | -1.971 | .08080 | .03420 | .02000 | .02020 |
| 1.199 | -.924 | .08080 | .03420 | .02000 | .02020 |
| 1.200 | .136 | .08080 | .03420 | .02000 | .02020 |
| 1.201 | .645 | .08080 | .02280 | .02000 | .02020 |
| 1.200 | 1.181 | .08080 | .03420 | .02000 | .02020 |
| 1.199 | 2.242 | .08080 | .03420 | .02000 | .02020 |
| 1.200 | 3.296 | .07070 | .03420 | .02000 | .02020 |
| 1.197 | 4.341 | .07070 | .03420 | .02000 | .02020 |
| 1.198 | 6.419 | .08080 | .03420 | .02000 | .02020 |
| 1.198 | GRADIENT | .00174 | .00015 | .00000 | .00000 |
| | | | | | DEL |
| | | | | | DELL |
| | | | | | DEL |
| | | | | | DELR |
| | | | | | DRHL |

| RUN NO. 134/ 0 | | RN/L = 4.96 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|--------|---------------------------------|--------|
| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI |
| 1.298 | -6.125 | .08080 | .06830 | .02000 | .01010 |
| 1.302 | -1.969 | .07070 | .05690 | .03000 | .01010 |
| 1.302 | -.919 | .06060 | .05690 | .02000 | .02020 |
| 1.301 | .133 | .07070 | .05690 | .03000 | .02020 |
| 1.301 | .642 | .07070 | .05690 | .03000 | .02020 |
| 1.300 | 1.209 | .07070 | .05690 | .03000 | .02020 |
| 1.300 | 2.280 | .07070 | .05690 | .03000 | .02020 |
| 1.300 | 3.341 | .07070 | .05690 | .03000 | .02020 |
| 1.300 | 4.409 | .07070 | .05690 | .03000 | .02020 |
| 1.299 | 6.468 | .07070 | .04550 | .03000 | .02020 |
| 1.299 | GRADIENT | .00065 | .00000 | .00065 | .00098 |
| | | | | | DEL |
| | | | | | DELL |
| | | | | | DEL |
| | | | | | DELR |
| | | | | | DRHL |

(02F018) (16 JUL 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 153/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|---------|---------|--------|---------|---------|
| 1.399 | -6.136 | -.08080 | -.03420 | -.01000 | -.02020 | .04660 | -.01020 | .24920 |
| 1.405 | -1.979 | -.07070 | -.03420 | -.02000 | -.01010 | .03650 | .00990 | .09340 |
| 1.404 | -.928 | -.08080 | -.03420 | -.01000 | -.01010 | .04660 | -.00010 | .06230 |
| 1.403 | .014 | -.08080 | -.03420 | -.01000 | -.01010 | .04660 | -.00010 | .03110 |
| 1.402 | .578 | -.08080 | -.03420 | -.01000 | -.01010 | .04660 | -.00010 | .02080 |
| 1.401 | 1.100 | -.08080 | -.03420 | -.01000 | -.01010 | .04660 | -.00010 | .02080 |
| 1.401 | 2.185 | -.08080 | -.03420 | -.01000 | -.01010 | .04660 | -.01020 | .00000 |
| 1.400 | 3.270 | -.08080 | -.03420 | -.02000 | -.02020 | .04660 | -.00020 | .00000 |
| 1.401 | 4.335 | -.08080 | -.03420 | -.02000 | -.02020 | .04790 | .00990 | -.05100 |
| 1.399 | 6.452 | -.07070 | -.02280 | -.02000 | -.01010 | .00998 | -.00169 | -.01367 |
| | GRADIENT | -.00098 | -.00000 | -.00007 | -.00176 | | | |

AMES 118-1-11 0A145A 01(-TO+)

(02F019) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 179/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|---------|---------|---------|
| .902 | -6.095 | -.10100 | -.04550 | -.01000 | -.03030 | .05550 | -.02030 | .00000 |
| .801 | -1.888 | -.10100 | -.04550 | -.01000 | -.02020 | .05550 | -.01020 | -.03060 |
| .902 | -.814 | -.10100 | -.04550 | -.01000 | -.02020 | .05550 | -.01020 | -.04080 |
| .900 | .042 | -.10100 | -.04550 | -.02000 | -.02020 | .05550 | -.00020 | -.05100 |
| .901 | .427 | -.10100 | -.04550 | -.01000 | -.02020 | .05550 | -.01020 | -.06110 |
| .901 | .959 | -.10100 | -.04550 | -.01000 | -.02020 | .05550 | -.01020 | -.06110 |
| .901 | 2.047 | -.10100 | -.04550 | -.01000 | -.02020 | .05550 | -.01020 | -.08150 |
| .901 | 3.126 | -.10100 | -.04550 | -.01000 | -.02020 | .05550 | -.01020 | -.09170 |
| .901 | 4.183 | -.10100 | -.05690 | -.01000 | -.02020 | .04410 | -.01020 | -.11210 |
| .899 | 6.250 | -.10100 | -.03420 | -.01000 | -.02020 | .06690 | -.01020 | -.15290 |
| | GRADIENT | -.00000 | -.00126 | .00034 | -.00000 | -.00126 | -.00034 | -.01335 |

(02F019) (16 JUL 77)

AMES 118-1-11 OAI45A 01(+TO+)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 ELEVON = .000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BDFLAP = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPOBRK = 25.000 RUDDER = .000
SCALE = .0500 RN/L = 5.000

RUN NO. 123/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|---------|--------|--------|
| .951 | -6.091 | -.07070 | -.04550 | -.07000 | -.01010 | .02520 | .05990 | .00000 |
| .951 | -4.034 | -.07070 | -.05690 | -.05000 | -.01010 | .01380 | .03990 | .00000 |
| .951 | -3.010 | -.07070 | -.04550 | -.06000 | -.01010 | .02520 | .04990 | .00000 |
| .950 | -1.961 | -.07070 | -.04550 | -.07000 | -.01010 | .02520 | .05990 | .00000 |
| .951 | -.899 | -.07070 | -.05690 | -.07000 | -.01010 | .01380 | .05990 | .00000 |
| .951 | .131 | -.07070 | -.04550 | -.07000 | -.01010 | .02520 | .05990 | .00000 |
| .951 | .654 | -.07070 | -.05690 | -.08000 | -.02020 | .01380 | .05980 | .00000 |
| .951 | 1.175 | -.07070 | -.05690 | -.06000 | -.02020 | .01380 | .03980 | .00000 |
| .951 | 2.264 | -.06060 | -.04550 | -.06000 | -.02020 | .01510 | .03980 | .00000 |
| .951 | 3.326 | -.06060 | -.05690 | -.08000 | -.01010 | .00370 | .06990 | .00000 |
| .951 | 4.372 | -.07070 | -.04550 | -.07000 | -.01010 | .02520 | .05990 | .00000 |
| .949 | 6.451 | -.07070 | -.04550 | -.07000 | -.02020 | .02520 | .04980 | .00000 |
| | GRADIENT | .00079 | .00013 | -.00183 | -.00053 | -.00065 | .00130 | .00000 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 ELEVON = .000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BDFLAP = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPOBRK = 25.000 RUDDER = .000
SCALE = .0500 RN/L = 5.000

RUN NO. 180/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|---------|---------|---------|
| .900 | -6.091 | -.11110 | -.04550 | -.01000 | -.02020 | .06560 | -.01020 | .00000 |
| .901 | -3.997 | -.11110 | -.04550 | -.01000 | -.03030 | .06560 | -.02030 | -.02040 |
| .902 | -2.930 | -.10100 | -.04550 | -.01000 | -.02020 | .05550 | -.01020 | -.04080 |
| .900 | -1.856 | -.10100 | -.03420 | -.01000 | -.03030 | .06690 | -.02030 | -.05100 |
| .903 | -.796 | -.10100 | -.04550 | -.01000 | -.02020 | .05550 | -.01020 | -.07130 |
| .902 | .052 | -.10100 | -.04550 | -.01000 | -.02020 | .05550 | -.01020 | -.07130 |
| .904 | .486 | -.10100 | -.04550 | -.01000 | -.02020 | .05550 | -.01020 | -.08150 |
| .901 | 1.020 | -.10100 | -.04550 | -.01000 | -.02020 | .05550 | -.01020 | -.08150 |
| .901 | 2.102 | -.09090 | -.04550 | -.01000 | -.02020 | .04540 | -.01020 | -.09170 |
| .903 | 3.175 | -.10100 | -.04550 | -.01000 | -.02020 | .05550 | -.01020 | -.10190 |
| .901 | 4.226 | -.10100 | -.04550 | -.01000 | -.03030 | .05550 | -.02030 | -.12230 |
| | GRADIENT | .00099 | -.00036 | -.00000 | .00034 | -.00136 | .00034 | -.01125 |

AMES 118-1-11 0A145A 01(+TO-)

(D2F020) (16 JUL 77)

REFERENCE DATA

| | | | | | | | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|--------|--------|---|--------|--------|---|------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. X0 | ALPHA | = | 5.000 | ELEVON | = | .000 |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. Y0 | ATLRON | = | .000 | BOFLAP | = | .000 |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. Z0 | SPDBRK | = | 25.000 | RUDDER | = | .000 |
| SCALE | = | .0500 | | | | | | RN/L | = | 5.000 | | | |

PARAMETRIC DATA

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | 5.00/ |
|----------|--------|---------|---------|---------|---------|---------|-------|
| 951 | -6.061 | -.08080 | -.04550 | -.05000 | -.01010 | -.03530 | |
| 950 | -3.970 | .10100 | -.04550 | .05000 | -.01010 | .05550 | |
| 952 | -2.940 | -.08080 | -.04550 | -.05000 | -.01010 | -.03530 | |
| 951 | -1.893 | -.08080 | -.04550 | -.05000 | -.01010 | -.03530 | |
| 951 | -.891 | -.08080 | -.04550 | -.04000 | -.02020 | -.03530 | |
| 951 | .156 | -.08080 | -.04550 | -.04000 | -.01010 | -.03530 | |
| 951 | .689 | -.08080 | -.04550 | -.05000 | -.01010 | -.03530 | |
| 951 | 1.226 | -.08080 | -.04550 | -.05000 | -.01010 | -.03530 | |
| 952 | 2.307 | -.08080 | -.04550 | -.06000 | -.01010 | -.03530 | |
| 951 | 3.368 | -.08080 | -.05690 | -.06000 | -.02020 | -.02390 | |
| 953 | 4.417 | -.08080 | -.04550 | -.06000 | -.02020 | -.03530 | |
| 952 | 6.448 | -.08080 | -.05690 | -.06000 | -.02020 | -.02390 | |
| GRADIENT | | -.00128 | -.00054 | -.00159 | -.00094 | -.00182 | |

REFERENCE DATA

| | | | | | | | | | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|-----|----|---|--------|---|--------|--------|---|------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. | XO | = | ALPHA | = | 5.000 | ELEVON | = | .000 |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. | YO | = | TILRON | = | .000 | BDFLAP | = | .000 |
| BREF | = | 936.6800 | INCHES | ZMRP | = | | IN. | ZO | = | SPOBRK | = | 25.000 | RUDDER | = | .000 |
| SCALE | = | .0500 | | | | | | | | RN/L | = | 3.000 | | | |

PARAMETRIC DATA

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|--------|--------|--------|--------|---------|---------|---------|
| .602 | -5.994 | .03400 | .02040 | .00000 | .01980 | -.01360 | .01980 | .00000 |
| .601 | -1.969 | .03400 | .02040 | .00000 | .02970 | -.01360 | .02970 | -.03060 |
| .601 | -.962 | .03400 | .02040 | .01150 | .01980 | -.01360 | .00830 | -.09170 |
| .600 | .083 | .03400 | .02040 | .01150 | .02970 | -.01360 | .01820 | -.10190 |
| .600 | .584 | .03400 | .02040 | .01150 | .02970 | -.01360 | .01820 | -.11210 |
| .601 | 1.070 | .03400 | .03060 | .01150 | .01980 | -.00340 | .00830 | -.10190 |
| .601 | 2.072 | .03400 | .02040 | .01150 | .01980 | -.01360 | .00830 | -.09170 |
| .600 | 3.079 | .03400 | .03060 | .00000 | .02970 | -.00340 | .02970 | -.09170 |
| .600 | 4.092 | .03400 | .02040 | .01150 | .02970 | -.00340 | .01820 | -.09170 |
| .599 | 6.136 | .03400 | .02040 | .00000 | .01980 | -.01360 | .01980 | -.10190 |
| GRADIENT | | .00000 | .00186 | .00036 | .00029 | .00186 | -.00007 | -.00573 |

AMES 118-1-11 0A145A O!

(02F021) (16 JUL 77)

REFERENCE DATA

| | | | | | | | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|--------|--------|---|--------|--------|---|------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. X0 | ALPHA | = | 5.000 | ELEVON | = | .000 |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. Y0 | AILRON | = | .000 | BDFLAP | = | .000 |
| BRFF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. Z0 | SPDBRK | = | 25.000 | RUDDER | = | .000 |
| SCALE | = | .0500 | | | | | | RN/L | = | 3.000 | | | |

| | | | | | |
|---------|---------|------|--------|-------------------|----------------|
| RUN NO. | 271 / 0 | RN/L | = 2.97 | GRADIENT INTERVAL | = -5.00 / 5.00 |
|---------|---------|------|--------|-------------------|----------------|

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|--------|--------|---------|---------|---------|---------|
| .802 | -5.999 | .0250 | .0240 | .0000 | .0190 | -.00510 | .0190 | .00000 |
| .801 | -1.979 | .0250 | .0240 | .01150 | .02970 | -.00510 | .01820 | -.04080 |
| .802 | -.962 | .02550 | .02040 | .01150 | .02970 | -.00510 | .01820 | -.01020 |
| .802 | .068 | .0250 | .0240 | .01150 | .01980 | -.00510 | .00830 | -.05100 |
| .802 | .607 | .0250 | .0240 | .01150 | .01980 | -.00510 | .00830 | -.05100 |
| .801 | 1.084 | .02550 | .02040 | .01150 | .01980 | -.00510 | .00830 | -.17330 |
| .801 | 2.083 | .02550 | .02040 | .01150 | .01980 | -.00510 | .00830 | -.19340 |
| .799 | 3.094 | .01700 | .02040 | .01150 | .01980 | .00340 | .00830 | -.18340 |
| .802 | 4.112 | .00850 | .02040 | .01150 | .01980 | .01190 | .00830 | -.20380 |
| .799 | 5.163 | .00850 | .02040 | .01150 | .01980 | .01190 | .00830 | -.22420 |
| GRADIENT | | -.00243 | .00000 | .00000 | -.00170 | .00243 | -.00170 | -.03485 |

| | | | | | |
|---------|--------|--------|------|---------------------|-------------|
| RUN NO. | 279/ 0 | RN/L = | 2.98 | GRADIENT INTERVAL = | -5.00/ 5.00 |
|---------|--------|--------|------|---------------------|-------------|

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|--------|--------|--------|--------|---------|---------|
| .897 | -6.030 | .01700 | .03060 | .02300 | .02970 | .01360 | .00670 | .23880 |
| .898 | -1.885 | .00850 | .03060 | .02300 | .02970 | .02210 | .00670 | -.06110 |
| .899 | - | .01700 | .03060 | .03450 | .02970 | .01360 | -.00480 | -.16310 |
| .898 | .030 | .01700 | .03060 | .02300 | .02970 | .01360 | .00670 | -.17330 |
| .897 | .428 | .01700 | .03060 | .03450 | .02970 | .01360 | -.00480 | -.05100 |
| .895 | .936 | .01700 | .03060 | .03450 | .03960 | .01360 | .00510 | .00000 |
| .897 | 2.014 | .01700 | .03060 | .03450 | .03960 | .01360 | .00510 | -.02040 |
| .898 | 3.073 | .00850 | .03060 | .03450 | .03960 | .02210 | .00510 | -.02040 |
| .897 | 4.110 | .00850 | .03060 | .03450 | .03960 | .02210 | .00510 | -.06110 |
| .893 | 6.162 | .01700 | .03060 | .02300 | .02970 | .01360 | .00670 | -.24460 |
| | GRADIENT | -.00071 | .00000 | .00157 | .00219 | .00071 | .00062 | .01470 |

| | | | | | | | |
|---------|--------|--------|------|----------|------------|--------|------|
| RUN NO. | 281/ 0 | RN/L = | 3.00 | GRADIENT | INTERVAL = | -5.00/ | 5.00 |
|---------|--------|--------|------|----------|------------|--------|------|

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RJ | DELL | DELX | DRHL |
|------|----------|--------|--------|--------|--------|--------|---------|---------|
| .947 | -6.034 | .0850 | .0360 | .04590 | .02970 | .02210 | -.01620 | .30110 |
| .948 | -1.886 | .0850 | .0360 | .04590 | .02970 | .02210 | -.01620 | .12460 |
| .948 | -.839 | .0850 | .0360 | .04590 | .02970 | .02210 | -.01620 | .07270 |
| .947 | .028 | .0850 | .0360 | .04590 | .02970 | .02210 | -.01620 | .01040 |
| .947 | .426 | .0850 | .0360 | .04590 | .02970 | .02210 | -.01620 | -.03060 |
| .946 | .934 | .0850 | .0360 | .04590 | .02970 | .02210 | -.01620 | -.05100 |
| .947 | 2.021 | .0850 | .0360 | .04590 | .02970 | .02210 | -.01620 | -.08150 |
| .945 | 3.080 | .0850 | .0360 | .04590 | .02970 | .02210 | -.01620 | -.09170 |
| .946 | 4.114 | .0850 | .0360 | .04590 | .02970 | .02210 | -.01620 | -.14270 |
| .947 | 6.197 | .0850 | .0360 | .04590 | .02970 | .02210 | -.01620 | -.31590 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | -.00000 | -.04290 |

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OAI45 TABULATED FORCE DATA

PAGE 1304

(02F022) (16 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 9.000

RUN NO. 336/ 0 RN/L = 6.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|--------|--------|--------|--------|---------|---------|
| .597 | -6.091 | .01700 | .02040 | .03450 | .01980 | .00340 | -.01470 | -.01020 |
| .597 | -1.921 | .01700 | .02040 | .03450 | .01980 | .00340 | -.01470 | -.37710 |
| .597 | -.853 | .01700 | .02040 | .03450 | .01980 | .00340 | -.01470 | -.54010 |
| .597 | .048 | .01700 | .02040 | .03450 | .01980 | .00340 | -.01470 | -.62170 |
| .597 | .443 | .01700 | .02040 | .03450 | .01980 | .00340 | -.01470 | -.08150 |
| .597 | .987 | .01700 | .02040 | .03450 | .01980 | .00340 | -.01470 | -.03110 |
| .597 | 2.081 | .01700 | .02040 | .03450 | .01980 | .00340 | -.01470 | -.01020 |
| .597 | 3.141 | .01700 | .02040 | .03450 | .01980 | .00340 | -.01470 | .00000 |
| .596 | 5.220 | .01700 | .02040 | .03450 | .01980 | .00340 | -.01470 | .02080 |
| .596 | 6.258 | .01700 | .02040 | .03450 | .01980 | .00340 | -.01470 | .00000 |
| | GRADIENT | -.00000 | .00000 | .00000 | .00000 | .00000 | -.00000 | .11519 |

RUN NO. 339/ 0 RN/L = 7.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|--------|--------|--------|--------|---------|---------|
| .800 | -6.205 | .02550 | .03060 | .02300 | .00990 | .00510 | -.01310 | -.76440 |
| .800 | -1.966 | .02550 | .03060 | .02300 | .00990 | .00510 | -.00320 | -.24460 |
| .800 | -.874 | .02550 | .03060 | .02300 | .00990 | .00510 | -.00320 | -.57070 |
| .800 | .044 | .02550 | .03060 | .02300 | .00990 | .00510 | -.00320 | .04150 |
| .800 | .456 | .02550 | .03060 | .02300 | .00990 | .00510 | -.00320 | .08310 |
| .799 | 1.021 | .02550 | .03060 | .02300 | .00990 | .00510 | -.00320 | -.12230 |
| .799 | 2.132 | .00850 | .03060 | .02300 | .00990 | .01360 | -.00320 | -.13250 |
| .799 | 3.204 | .01700 | .03060 | .02300 | .00990 | .01360 | -.00320 | -.15290 |
| .799 | 4.263 | .00850 | .03060 | .02300 | .00990 | .02210 | -.00320 | .09340 |
| .798 | 6.380 | .01700 | .03060 | .02300 | .00990 | .01360 | -.01310 | -.02040 |
| | GRADIENT | -.00304 | .00000 | .00000 | .00000 | .00304 | -.00000 | .05152 |

RUN NO. 383/ 0 RN/L = 8.70 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|--------|---------|---------|--------|--------|---------|
| .901 | -6.290 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -.03060 |
| .900 | -2.099 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | .36340 |
| .899 | -1.041 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -.27520 |
| .899 | .024 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -.66240 |
| .900 | .679 | .01700 | .01020 | .01150 | .01980 | .00680 | .00830 | -.35670 |
| .898 | 1.217 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -.19360 |
| .899 | 2.240 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -.31590 |
| .897 | 3.292 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -.26500 |
| .898 | 4.360 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -.12230 |
| .897 | 6.503 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | .20770 |
| | GRADIENT | -.00010 | .00000 | -.00000 | -.00000 | .00010 | .00000 | -.03349 |

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OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(D2F022) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 9.000

RUN NO. 341/ 0 RN/L = 8.88 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|---------|--------|---------|
| .954 | -6.299 | .01700 | .02040 | .01150 | .01980 | .00340 | .00830 | .55030 |
| .952 | -2.041 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.28540 |
| .952 | -.951 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | .00000 |
| .952 | .155 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | .01040 |
| .953 | .669 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | .02080 |
| .952 | 1.230 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | .01040 |
| .951 | 2.331 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -.03060 |
| .951 | 3.408 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -.17330 |
| .951 | 4.484 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -.18340 |
| .951 | 6.620 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -.57110 |
| | GRADIENT | .00081 | .00000 | .00000 | .00000 | -.00081 | .00000 | -.00422 |

AMES 118-1-11 OAI45A 01

(D2F023) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 187/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|--------|---------|---------|---------|--------|
| .600 | -6.003 | -.07070 | -.04550 | .00000 | -.03030 | .02520 | -.03030 | .00000 |
| .600 | -1.940 | -.07070 | -.04550 | .00000 | -.03030 | .02520 | -.03030 | .00000 |
| .600 | -.918 | -.07070 | -.04550 | .00000 | -.03030 | .02520 | -.03030 | .00000 |
| .598 | .099 | -.08080 | -.04550 | .00000 | -.03030 | .03530 | -.03030 | .00000 |
| .600 | .615 | -.08080 | -.04550 | .00000 | -.02020 | .03530 | -.02020 | .00000 |
| .599 | 1.133 | -.06060 | -.04550 | .00000 | -.03030 | .01510 | -.03030 | .00000 |
| .600 | 2.162 | -.06060 | -.04550 | .01150 | -.03030 | .01510 | -.04180 | .00000 |
| .598 | 3.201 | -.06060 | -.04550 | .01150 | -.03030 | .01510 | -.04180 | .00000 |
| .600 | 4.239 | -.06060 | -.04550 | .00000 | -.03030 | .01510 | -.03030 | .00000 |
| .600 | 6.328 | -.06060 | -.04550 | .00000 | -.03030 | .01510 | -.03030 | .00000 |
| | GRADIENT | .00266 | -.00000 | .00123 | -.00015 | -.00266 | -.00139 | .00000 |

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OAI45 TABULATED FORCE DATA

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AMES 11B-1-11 OAI45A 01

(02F023) (15 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 115/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|---------|---------|---------|---------|--------|---------|
| .799 | -5.998 | -.08080 | -.03420 | -.07000 | -.03030 | .04660 | .03970 | .11420 |
| .797 | -1.892 | -.08080 | -.03420 | -.07000 | -.02020 | .04660 | .04980 | .03110 |
| .799 | -.886 | -.08080 | -.03420 | -.07000 | -.03030 | .04660 | .03970 | .02080 |
| .798 | .124 | -.08080 | -.04550 | -.07000 | -.03030 | .03530 | .03970 | .00000 |
| .799 | .614 | -.08080 | -.04550 | -.07000 | -.02020 | .03530 | .04980 | .00000 |
| .797 | 1.106 | -.08080 | -.03420 | -.08000 | -.02020 | .04660 | .05980 | .00000 |
| .797 | 2.124 | -.08080 | -.04550 | -.08000 | -.02020 | .03530 | .05980 | -.01020 |
| .799 | 3.144 | -.08080 | -.04550 | -.07000 | -.02020 | .03530 | .04980 | -.03060 |
| .799 | 4.187 | -.08080 | -.04550 | -.08000 | -.02020 | .03530 | .05980 | -.06110 |
| .797 | 6.268 | -.08080 | -.04550 | -.08000 | -.02020 | .03530 | .05980 | -.07130 |
| GRADIENT | | -.00000 | -.00191 | -.00146 | .00101 | -.00191 | .00248 | -.01379 |

RUN NO. 173/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|---------|---------|---------|--------|---------|---------|
| .901 | -6.069 | -.08080 | -.03420 | -.02000 | -.02020 | .04660 | .00020 | .00000 |
| .902 | -1.939 | -.08080 | -.04550 | -.02000 | -.02020 | .03530 | .00020 | -.12230 |
| .901 | -.923 | -.09090 | -.04550 | -.02000 | -.02020 | .04540 | .00020 | -.15290 |
| .901 | .098 | -.09090 | -.04550 | -.02000 | -.02020 | .04540 | .00020 | -.11210 |
| .903 | .590 | -.10100 | -.03420 | -.01000 | -.02020 | .06690 | -.01020 | -.07130 |
| .900 | 1.085 | -.10100 | -.04550 | -.03000 | -.02020 | .05550 | .00980 | -.10190 |
| .901 | 2.106 | -.10100 | -.04550 | -.03000 | -.02020 | .05550 | .00980 | -.11210 |
| .902 | 3.131 | -.10100 | -.04550 | -.02000 | -.02020 | .05550 | .00020 | -.14270 |
| .901 | 4.175 | -.11110 | -.04550 | -.02000 | -.02020 | .05560 | .00020 | -.18340 |
| .899 | 6.260 | -.10100 | -.04550 | -.02000 | -.02020 | .05550 | .00020 | -.24460 |
| GRADIENT | | -.00416 | -.00017 | -.00054 | -.00000 | .00398 | .00054 | -.00669 |

RUN NO. 126/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|---------|---------|---------|---------|---------|--------|
| .950 | -6.057 | -.09090 | -.05690 | -.08000 | -.01010 | .03400 | .06990 | .00000 |
| .950 | -1.908 | -.09090 | -.05690 | -.08000 | -.01010 | .03400 | .06990 | .00000 |
| .951 | -.892 | -.10100 | -.04550 | -.09000 | -.02020 | .05350 | .06980 | .00000 |
| .952 | .155 | -.08080 | -.05690 | -.09000 | -.01010 | .02390 | .07990 | .00000 |
| .950 | .662 | -.09080 | -.04550 | -.07000 | -.01010 | .03530 | .05990 | .00000 |
| .951 | 1.190 | -.08080 | -.05690 | -.07000 | -.02020 | .02390 | .04980 | .00000 |
| .950 | 2.235 | -.08080 | -.05690 | -.07000 | -.02020 | .02390 | .04980 | .00000 |
| .950 | 3.295 | -.08080 | -.05690 | -.07000 | -.01010 | .02390 | .05990 | .00000 |
| .951 | 4.341 | -.06080 | -.05690 | -.06000 | -.01010 | .02390 | .04990 | .00000 |
| .951 | 6.451 | -.08080 | -.05690 | -.06000 | -.01010 | .02390 | .04990 | .00000 |
| GRADIENT | | .00233 | -.00093 | .00399 | .00029 | -.00326 | -.00371 | .00000 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 10.000 ELEVON = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BDFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDBRK = 25.000 RUDDER = .000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 164/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|----------|----------|--------|----------|----------|
| 1.199 | -6.086 | -0.0800 | -0.3420 | -0.0200 | -0.0100 | 0.4660 | 0.0990 | -0.20380 |
| 1.202 | -1.958 | -0.0800 | -0.3420 | -0.0200 | -0.0200 | 0.4660 | -0.0020 | -0.23440 |
| 1.200 | -.941 | -0.0900 | -0.3420 | -0.0200 | -0.0200 | 0.5680 | -0.0020 | -0.04080 |
| 1.199 | .086 | -0.0800 | -0.3420 | -0.0200 | -0.0200 | 0.4660 | -0.0020 | -0.05100 |
| 1.197 | .581 | -0.0800 | -0.3420 | -0.0200 | -0.0200 | 0.4660 | -0.0020 | -0.07130 |
| 1.197 | 1.077 | -0.0900 | -0.3420 | -0.0200 | -0.0200 | 0.5680 | -0.0020 | -0.07130 |
| 1.200 | 2.105 | -0.0900 | -0.3420 | -0.0200 | -0.0200 | 0.6810 | -0.0020 | -0.08150 |
| 1.200 | 3.133 | -0.0800 | -0.3420 | -0.0200 | -0.0200 | 0.4660 | -0.0020 | -0.09170 |
| 1.199 | 4.184 | -0.0800 | -0.3420 | -0.0200 | -0.0200 | 0.4660 | -0.0020 | -0.10190 |
| 1.196 | 6.277 | -0.0800 | -0.3420 | -0.0200 | -0.0200 | 0.5800 | -0.0020 | -0.12230 |
| | GRADIENT | .00029 | .00042 | -0.00000 | -0.00000 | .00011 | -0.00000 | .00877 |

RUN NO. 135/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|----------|---------|----------|---------|----------|
| 1.297 | -6.075 | -0.0700 | -0.5690 | -0.0200 | -0.0200 | 0.1380 | -0.0020 | 0.09340 |
| 1.303 | -1.927 | -0.0700 | -0.5690 | -0.0200 | -0.0200 | 0.1380 | -0.0020 | 0.07270 |
| 1.302 | -.912 | -0.0700 | -0.4550 | -0.0200 | -0.0200 | 0.2520 | -0.0020 | 0.07270 |
| 1.299 | .113 | -0.0700 | -0.5690 | -0.0200 | -0.0200 | 0.1380 | -0.0020 | 0.05190 |
| 1.298 | .599 | -0.0700 | -0.5690 | -0.0200 | -0.0300 | 0.1380 | -0.0100 | 0.06230 |
| 1.298 | 1.106 | -0.0600 | -0.6830 | -0.0300 | -0.0200 | -0.0770 | -0.0980 | 0.06230 |
| 1.298 | 2.138 | -0.0700 | -0.5690 | -0.0200 | -0.0200 | 0.1380 | -0.0020 | 0.05190 |
| 1.297 | 3.176 | -0.0700 | -0.5690 | -0.0200 | -0.0200 | 0.1380 | -0.0020 | 0.01040 |
| 1.296 | 4.223 | -0.0600 | -0.5690 | -0.0200 | -0.0200 | 0.0370 | -0.0020 | 0.00000 |
| 1.294 | 6.320 | -0.0700 | -0.5690 | -0.0200 | -0.0200 | 0.1380 | -0.0020 | -0.03060 |
| | GRADIENT | .00109 | .00078 | -0.00001 | .00016 | -0.00187 | .00017 | -0.01215 |

RUN NO. 156/ 0 RN/L = 5.09 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|----------|---------|---------|----------|--------|----------|----------|
| 1.400 | -6.122 | -0.0900 | -0.6830 | -0.0100 | -0.0300 | 0.2260 | -0.0200 | 0.05190 |
| 1.404 | -1.964 | -0.0900 | -0.6830 | -0.0100 | -0.0300 | 0.2260 | -0.0200 | -0.04080 |
| 1.404 | -.942 | -0.0900 | -0.6830 | -0.0100 | -0.0300 | 0.2260 | -0.0200 | -0.04080 |
| 1.404 | .087 | -0.0900 | -0.5690 | .00000 | -0.0300 | 0.3400 | -0.0300 | -0.13250 |
| 1.403 | .580 | -0.0900 | -0.6830 | .00000 | -0.0300 | 0.2260 | -0.0300 | -0.14270 |
| 1.404 | 1.083 | -0.0900 | -0.6830 | .00000 | -0.0300 | 0.2260 | -0.0300 | -0.14270 |
| 1.403 | 2.119 | -0.0900 | -0.6830 | .00000 | -0.0300 | 0.2260 | -0.0300 | -0.12230 |
| 1.403 | 3.151 | -0.0900 | -0.5690 | .00000 | -0.0300 | 0.3400 | -0.0300 | -0.17330 |
| 1.403 | 4.211 | -0.0900 | -0.6830 | .00000 | -0.0300 | 0.2260 | -0.0300 | -0.15290 |
| 1.401 | 6.320 | -0.0900 | -0.6830 | .00000 | -0.0300 | 0.2260 | -0.0300 | -0.18340 |
| | GRADIENT | -0.00000 | .00044 | .00168 | -0.00000 | .00044 | -0.00168 | -0.01993 |

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OAI45 TABULATED FORCE DATA

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(02F024) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 15.000 ELEVON = .000
 AILRON = .000 BDELAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

| RUN NO. 188/ 0 | | RN/L = 4.99 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|---------|---------------------------------|---------|
| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI |
| .598 | -6.041 | -.06060 | -.04550 | .00000 | -.03030 |
| .597 | -1.949 | -.06060 | -.04550 | .00000 | -.02020 |
| .600 | -.915 | -.06060 | -.04550 | .00000 | -.03030 |
| .599 | .123 | -.07070 | -.04550 | .00000 | -.03030 |
| .600 | .645 | -.07070 | -.05690 | -.01000 | -.03030 |
| .600 | 1.171 | -.07070 | -.04550 | -.02000 | -.03030 |
| .599 | 2.234 | -.07070 | -.04550 | -.02000 | -.03030 |
| .600 | 3.272 | -.07070 | -.04550 | .00000 | -.03030 |
| .600 | 4.312 | -.07070 | -.04550 | .00000 | -.03030 |
| .600 | 6.411 | -.07070 | -.04550 | .00000 | -.03030 |
| .600 | GRADIENT | -.00167 | .00017 | -.00061 | -.00100 |

| RUN NO. 116/ 0 | | RN/L = 4.95 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|---------|---------------------------------|---------|
| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI |
| .800 | -6.072 | -.07070 | -.03420 | -.07000 | -.02020 |
| .796 | -1.922 | -.08080 | -.04550 | -.08000 | -.02020 |
| .797 | -.895 | -.08080 | -.04550 | -.08000 | -.02020 |
| .799 | .156 | -.08080 | -.04550 | -.09000 | -.02020 |
| .797 | .669 | -.08080 | -.04550 | -.07000 | -.03030 |
| .799 | 1.177 | -.07070 | -.04550 | -.07000 | -.03030 |
| .798 | 2.219 | -.07070 | -.04550 | -.08000 | -.02020 |
| .799 | 3.259 | -.07070 | -.04550 | -.08000 | -.03030 |
| .798 | 4.303 | -.07070 | -.04550 | -.07000 | -.03030 |
| .799 | 6.384 | -.06060 | -.04550 | -.06000 | -.02020 |
| .799 | GRADIENT | .00215 | -.00000 | .00124 | -.00164 |

| RUN NO. 174/ 0 | | RN/L = 4.98 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|---------|---------------------------------|---------|
| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI |
| .900 | -6.119 | -.09090 | -.04550 | -.02000 | -.02020 |
| .899 | -1.953 | -.09090 | -.04550 | -.02000 | -.02020 |
| .900 | -.906 | -.09090 | -.04550 | -.02000 | -.02020 |
| .901 | .146 | -.08080 | -.04550 | -.02000 | -.02020 |
| .902 | .654 | -.09090 | -.03420 | -.02000 | -.02020 |
| .901 | 1.169 | -.08080 | -.03420 | -.02000 | -.02020 |
| .900 | 2.197 | -.08080 | -.04550 | -.02000 | -.02020 |
| .901 | 3.240 | -.08080 | -.04550 | -.02000 | -.02020 |
| .901 | 4.292 | -.08080 | -.03420 | -.02000 | -.02020 |
| .900 | 6.377 | -.08080 | -.04550 | -.01000 | -.01010 |
| .900 | GRADIENT | .00183 | .00104 | -.00000 | -.00000 |

DRHL .12460
 DELR .04980
 DELL .03550
 DRHL .03110
 DELR .05980
 DELL .03530
 DRHL .02040
 DELR .05980
 DELL .03530
 DRHL .04080
 DELR .03970
 DELL .02520
 DRHL .03060
 DELR .05980
 DELL .02520
 DRHL .06110
 DELR .04970
 DELL .02520
 DRHL .09170
 DELR .03970
 DELL .01510
 DRHL .10190
 DELR .03980
 DELL .00215
 DRHL .01731
 DELR .00287
 DELL .00215

DRHL .01040
 DELR .00020
 DELL .04540
 DRHL .28540
 DELR .00020
 DELL .04540
 DRHL .36690
 DELR .00020
 DELL .04540
 DRHL .02040
 DELR .00020
 DELL .03530
 DRHL .07130
 DELR .00020
 DELL .04660
 DRHL .06110
 DELR .00020
 DELL .03530
 DRHL .12230
 DELR .00020
 DELL .03530
 DRHL .03060
 DELR .00020
 DELL .04660
 DRHL .02040
 DELR .00020
 DELL .03530
 DRHL .06110
 DELR .00010
 DELL .00079
 DRHL .04582
 DELR .00000
 DELL .00079

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OAI45 TABULATED FORCE DATA

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(D2F024) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 15.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 127/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|---------|---------|---------|---------|--------|--------|
| .950 | -6.074 | -.08080 | -.04550 | -.04000 | -.02020 | .03530 | .01980 | .00000 |
| .951 | -1.933 | -.08080 | -.05690 | -.04000 | -.02020 | .02390 | .01980 | .00000 |
| .951 | -.850 | -.08080 | -.05690 | -.04000 | -.02020 | .02390 | .01980 | .00000 |
| .953 | .188 | -.07070 | -.05690 | -.05000 | -.02020 | .01380 | .02980 | .00000 |
| .951 | .700 | -.07070 | -.05690 | -.06000 | -.02020 | .01380 | .03980 | .00000 |
| .951 | 1.228 | -.07070 | -.06830 | -.05000 | -.02020 | .00240 | .02980 | .00000 |
| .951 | 2.303 | -.07070 | -.05690 | -.05000 | -.02020 | .01380 | .02980 | .00000 |
| .952 | 3.359 | -.07070 | -.05690 | -.06000 | -.01010 | .01380 | .04990 | .00000 |
| .952 | 4.412 | -.06060 | -.05690 | -.06000 | -.02020 | .00370 | .03980 | .00000 |
| .951 | 6.520 | -.05050 | -.05690 | -.05000 | -.01010 | -.00540 | .03990 | .00000 |
| GRADIENT | | .00269 | -.00002 | -.00320 | .00070 | -.00270 | .00390 | .00000 |

RUN NO. 165/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|---------|---------|---------|--------|---------|---------|
| 1.198 | -6.152 | -.07070 | -.03420 | -.04000 | -.02020 | .03650 | .01980 | .19730 |
| 1.200 | -2.007 | -.08080 | -.03420 | -.03000 | -.02020 | .04660 | .00980 | .08310 |
| 1.199 | -.958 | -.08080 | -.03420 | -.03000 | -.02020 | .04660 | .00980 | .02080 |
| 1.199 | .103 | -.09090 | -.03420 | -.03000 | -.02020 | .05680 | .00980 | .00000 |
| 1.199 | .624 | -.08080 | -.03420 | -.03000 | -.02020 | .04660 | .00980 | -.02040 |
| 1.200 | 1.139 | -.08080 | -.03420 | -.03000 | -.02020 | .04660 | .00980 | -.01020 |
| 1.198 | 2.178 | -.09090 | -.03420 | -.03000 | -.02020 | .05680 | .00980 | -.02040 |
| 1.200 | 3.227 | -.09090 | -.03420 | -.03000 | -.02020 | .05680 | .00980 | -.07130 |
| 1.199 | 4.286 | -.08080 | -.03420 | -.02000 | -.02020 | .04660 | -.00020 | -.12230 |
| 1.197 | 6.372 | -.08080 | -.03420 | -.02000 | -.02020 | .04660 | -.00020 | -.12230 |
| GRADIENT | | -.00075 | -.00000 | .00104 | -.00000 | .00075 | -.00104 | -.02775 |

RUN NO. 137/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|---------|---------|---------|--------|---------|---------|
| 1.296 | -6.143 | -.07070 | -.05690 | -.02000 | -.02020 | .01380 | -.00020 | .08310 |
| 1.299 | -1.995 | -.07070 | -.05690 | -.02000 | -.02020 | .01380 | -.00020 | .04150 |
| 1.298 | -.930 | -.07070 | -.04550 | -.03000 | -.02020 | .02520 | .00980 | .05190 |
| 1.298 | .130 | -.07070 | -.04550 | -.03000 | -.01010 | .02520 | .01990 | .04150 |
| 1.298 | .653 | -.07070 | -.05690 | -.03000 | -.02020 | .01380 | .00980 | .05190 |
| 1.298 | 1.177 | -.07070 | -.05690 | -.03000 | -.01010 | .01380 | .01990 | .06230 |
| 1.298 | 2.208 | -.07070 | -.05690 | -.02000 | -.02020 | .01380 | -.00020 | .04150 |
| 1.298 | 3.258 | -.07070 | -.05690 | -.02000 | -.02020 | .01380 | -.00020 | .02080 |
| 1.297 | 4.320 | -.08080 | -.04550 | -.02000 | -.02020 | .03530 | -.00020 | .01040 |
| 1.296 | 6.411 | -.08080 | -.04550 | -.02000 | -.02020 | .03530 | -.00020 | .00000 |
| GRADIENT | | -.00104 | .00008 | .00109 | -.00029 | .00112 | -.00138 | -.00543 |

OAI45 TABULATED FORCE DATA

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(D2F025) (16 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 13.000 ELEVON = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BDELAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDBRK = 25.000 RUDDER = .000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 157/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|---------|---------|---------|---------|--------|
| 1.392 | -6.153 | -.05690 | -.05690 | -.02000 | -.03030 | .00370 | -.01030 | .00000 |
| 1.397 | -2.002 | -.06060 | -.06830 | -.02000 | -.04040 | -.00770 | -.02040 | .00000 |
| 1.397 | -.968 | -.06060 | -.06830 | -.02000 | -.03030 | -.00770 | -.01030 | .00000 |
| 1.397 | .089 | -.06060 | -.05690 | -.02000 | -.03030 | .00370 | -.01030 | .00000 |
| 1.395 | .601 | -.06060 | -.05690 | -.02000 | -.03030 | .00370 | -.01030 | .00000 |
| 1.395 | 1.119 | -.06060 | -.05690 | -.02000 | -.03030 | .00770 | -.01030 | .00000 |
| 1.395 | 2.171 | -.06060 | -.06830 | .00000 | -.03030 | .00370 | -.03030 | .00000 |
| 1.394 | 3.214 | -.06060 | -.05690 | .00000 | -.03030 | -.00770 | -.03030 | .00000 |
| 1.394 | 4.271 | -.06060 | -.06830 | .00000 | -.03030 | .00370 | -.02030 | .00000 |
| 1.391 | 6.376 | -.06060 | -.05690 | -.01000 | -.03030 | .00370 | -.02030 | .00000 |
| | GRADIENT | -.00000 | .00029 | .00348 | .00100 | .00029 | -.00247 | .00000 |

AMES 118-1-11 OAI45A 01

(D2F026) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO BETA = .000 ELEVON = 5.000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BDELAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDBRK = 25.000 RUDDER = .000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 69/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|---------|--------|--------|
| .598 | -9.863 | 5.18070 | 4.67950 | 4.89110 | 5.02630 | -.50120 | .13520 | .00000 |
| .598 | -5.015 | 5.18070 | 4.69110 | 4.90100 | 5.02630 | -.48960 | .12530 | .00000 |
| .598 | -.021 | 5.18070 | 4.67950 | 4.90100 | 5.02630 | -.50120 | .12530 | .00000 |
| .598 | 2.519 | 5.18070 | 4.69110 | 4.89110 | 5.02630 | -.48960 | .13520 | .00000 |
| .598 | 5.021 | 5.18070 | 4.67950 | 4.91090 | 5.02630 | -.50120 | .11540 | .01040 |
| .598 | 7.063 | 5.19040 | 4.67950 | 4.91090 | 5.02630 | -.51090 | .11540 | .00000 |
| .598 | 8.086 | 5.18070 | 4.67950 | 4.90100 | 5.02630 | -.50120 | .12530 | .00000 |
| .598 | 10.136 | 5.18070 | 4.67950 | 4.88120 | 5.02630 | -.50120 | .14510 | .00000 |
| .598 | 12.192 | 5.18070 | 4.67950 | 4.91090 | 5.02630 | -.50120 | .11540 | .00000 |
| .597 | 15.243 | 5.19040 | 4.69110 | 4.90100 | 5.02630 | -.49930 | .12530 | .00000 |
| .598 | 20.019 | 5.18070 | 4.67950 | 4.90100 | 5.02630 | -.50120 | .13600 | .00000 |
| | GRADIENT | -.00000 | .00457 | -.00390 | -.00000 | .00457 | .00390 | .00000 |

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(02F026) (16 JUL 77)

AMES 118-1-11 OAI145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = 5.000
 AILRON = .000 BOFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 109/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|---------|---------|---------|---------|---------|----------|
| .798 | -9.932 | 4.95760 | 4.84210 | 4.93070 | 4.91160 | -1.1550 | -0.1910 | -0.04080 |
| .800 | -4.646 | 4.94790 | 4.85370 | 4.94060 | 4.92080 | -0.9420 | -0.1980 | -0.05100 |
| .800 | .324 | 4.95760 | 4.84210 | 4.93070 | 4.92080 | -1.1550 | -0.0990 | -0.04030 |
| .797 | 2.855 | 4.95760 | 4.84210 | 4.93070 | 4.92080 | -1.1550 | -0.0990 | -0.04080 |
| .797 | 5.456 | 4.95760 | 4.84210 | 4.92080 | 4.92080 | -1.1550 | -0.0000 | -0.05100 |
| .797 | 8.518 | 4.95760 | 4.83050 | 4.93070 | 4.92080 | -1.2710 | -0.0990 | -0.04080 |
| .798 | 10.550 | 4.95760 | 4.84210 | 4.92080 | 4.91160 | -1.1550 | -0.0920 | -0.04080 |
| .797 | 12.645 | 4.94790 | 4.84210 | 4.93070 | 4.91160 | -1.0580 | -0.1910 | -0.04080 |
| .795 | 15.708 | 4.94790 | 4.84210 | 4.92080 | 4.92080 | -1.0580 | -0.0000 | -0.04080 |
| .797 | 20.481 | 4.94790 | 4.84210 | 4.93070 | 4.92080 | -1.0580 | -0.0990 | -0.05100 |
| GRADIENT | | .00138 | -.00166 | -.00141 | -.00000 | -.00304 | .00141 | .00146 |

RUN NO. 92/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|---------|---------|---------|---------|---------|----------|
| .900 | -4.753 | 4.96730 | 4.81890 | 4.92080 | 4.92080 | -1.4840 | .00000 | -0.06110 |
| .901 | .260 | 4.96730 | 4.81890 | 4.92080 | 4.92080 | -1.4840 | .00000 | -0.03060 |
| .900 | 2.782 | 4.96730 | 4.81890 | 4.92080 | 4.92080 | -1.4840 | .00000 | -0.02040 |
| .900 | 5.343 | 4.96730 | 4.83050 | 4.92080 | 4.92080 | -1.3680 | .00000 | -0.01020 |
| .899 | 8.390 | 4.95760 | 4.83050 | 4.92080 | 4.92080 | -1.2710 | .00000 | -0.02040 |
| .901 | 10.472 | 4.95760 | 4.81890 | 4.92080 | 4.91160 | -1.3870 | -.00920 | -0.03060 |
| .900 | 12.528 | 4.96730 | 4.83050 | 4.92080 | 4.92080 | -1.3680 | .00000 | -0.06110 |
| .899 | 15.566 | 4.96730 | 4.80730 | 4.92080 | 4.92080 | -1.5030 | .00000 | -0.03060 |
| .889 | 20.657 | 4.95760 | 4.81890 | 4.92080 | 4.92080 | -1.3870 | .00000 | -0.03060 |
| GRADIENT | | -.00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00550 |

RUN NO. 63/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|---------|---------|---------|---------|--------|----------|
| .950 | -9.854 | 5.20980 | 4.70270 | 4.71290 | 5.01560 | -5.0710 | .30270 | -0.02040 |
| .949 | -4.990 | 5.20980 | 4.69110 | 4.72280 | 4.99420 | -5.1870 | .27140 | -0.02040 |
| .951 | .022 | 5.20010 | 4.70270 | 4.73270 | 5.00490 | -4.9740 | .27220 | -0.02040 |
| .951 | 2.578 | 5.20010 | 4.70270 | 4.71290 | 5.00490 | -4.9740 | .29200 | -0.03060 |
| .950 | 5.080 | 5.19040 | 4.70270 | 4.71290 | 5.00490 | -4.8770 | .29200 | -0.02040 |
| .951 | 7.150 | 5.20010 | 4.69110 | 4.72280 | 5.01560 | -5.0900 | .29280 | -0.02040 |
| .951 | 8.182 | 5.19040 | 4.69110 | 4.74260 | 4.99420 | -4.9930 | .25160 | -0.01020 |
| .952 | 10.250 | 5.20010 | 4.72600 | 4.73270 | 5.01560 | -4.7410 | .28290 | -0.01020 |
| .951 | 12.294 | 5.19040 | 4.72600 | 4.75250 | 5.02630 | -4.6440 | .27380 | -0.01020 |
| .950 | 15.387 | 5.19040 | 4.72600 | 4.76240 | 5.00490 | -4.6440 | .24250 | -0.01020 |
| .950 | 20.787 | 5.20010 | 4.71430 | 4.75250 | 5.02630 | -4.8580 | .27380 | -0.00000 |
| GRADIENT | | -.00137 | .00164 | -.00085 | .00151 | .00301 | .00237 | -.00116 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETA = .000 ELEVON = 5.000
AILRON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 244/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|---------|---------|----------|---------|---------|
| 1.050 | -5.833 | 5.00610 | 4.90020 | 4.65350 | 4.99420 | -1.10590 | .34070 | .11420 |
| 1.052 | -8.812 | 5.01580 | 4.90020 | 4.66340 | 4.98420 | -1.11560 | .33080 | .11420 |
| 1.051 | 1.752 | 5.01580 | 4.88860 | 4.66340 | 4.98350 | -1.12720 | .32010 | .03110 |
| 1.051 | 4.265 | 5.00610 | 4.90020 | 4.66340 | 4.98350 | -1.10590 | .32010 | .02080 |
| 1.046 | 6.512 | 5.00610 | 4.89860 | 4.66340 | 4.98350 | -1.11750 | .32010 | .02080 |
| 1.050 | 7.383 | 4.99640 | 4.90020 | 4.65350 | 4.98350 | -.09620 | .33000 | .05190 |
| 1.047 | 9.491 | 4.99640 | 4.88860 | 4.65350 | 4.98350 | -1.10780 | .33000 | .05190 |
| 1.045 | 11.294 | 4.99640 | 4.88860 | 4.66340 | 4.98350 | -1.10780 | .32010 | .06230 |
| 1.049 | 14.582 | 4.99640 | 4.88860 | 4.66340 | 4.98350 | -1.10780 | .32010 | .06230 |
| | GRADIENT | -.00190 | -.00002 | .00000 | -.00211 | .00189 | -.00211 | -.01844 |

RUN NO. 242/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|---------|---------|----------|--------|---------|
| 1.103 | -4.248 | 5.01580 | 4.90020 | 4.66340 | 4.98350 | -1.11560 | .32010 | .02080 |
| 1.103 | -8.809 | 5.01580 | 4.90020 | 4.66340 | 4.98350 | -1.11560 | .32010 | .02080 |
| 1.100 | 1.747 | 5.01580 | 4.90020 | 4.66340 | 4.98350 | -1.11560 | .32010 | .01040 |
| 1.095 | 4.269 | 5.00610 | 4.90020 | 4.65350 | 4.98350 | -1.10590 | .33000 | .02080 |
| 1.101 | 6.342 | 5.00610 | 4.90020 | 4.65350 | 4.98350 | -1.10590 | .33000 | .01040 |
| 1.100 | 7.339 | 5.00610 | 4.90020 | 4.66340 | 4.97280 | -1.10590 | .30940 | .01040 |
| 1.100 | 9.412 | 5.00610 | 4.90020 | 4.66340 | 4.98350 | -1.10590 | .32010 | .06230 |
| 1.100 | 11.500 | 5.01580 | 4.88860 | 4.66340 | 4.98350 | -1.12720 | .32010 | .08310 |
| 1.101 | 14.559 | 4.99640 | 4.88860 | 4.65350 | 4.98350 | -1.10780 | .33000 | .03110 |
| | GRADIENT | -.00098 | -.00000 | -.00100 | -.00000 | .00098 | .00100 | -.00039 |

RUN NO. 86/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|---------|---------|----------|---------|---------|
| 1.202 | -4.788 | 4.96730 | 4.80730 | 5.00000 | 4.91160 | -1.15000 | -.08840 | -.03060 |
| 1.203 | .150 | 4.95760 | 4.79570 | 5.00890 | 4.91160 | -1.16190 | -.09730 | -.03060 |
| 1.200 | 2.676 | 4.96730 | 4.79570 | 5.00000 | 4.91160 | -1.17160 | -.08840 | -.03060 |
| 1.198 | 5.197 | 4.95760 | 4.79570 | 5.00000 | 4.90240 | -1.16190 | -.09760 | -.03060 |
| 1.198 | 8.297 | 4.96730 | 4.79570 | 5.00000 | 4.90240 | -1.17160 | -.09760 | -.03060 |
| 1.198 | 10.368 | 4.96730 | 4.79570 | 4.99010 | 4.90240 | -1.17160 | -.08770 | -.03060 |
| 1.198 | 12.435 | 4.95760 | 4.79570 | 4.99010 | 4.90240 | -1.16190 | -.08770 | -.03060 |
| 1.198 | 15.535 | 4.95760 | 4.78400 | 4.99010 | 4.90240 | -1.17360 | -.08770 | -.03060 |
| 1.197 | 20.517 | 4.96730 | 4.79570 | 5.00000 | 4.90240 | -1.17160 | -.09760 | -.04080 |
| 1.190 | | -.00027 | -.00166 | .00025 | -.00000 | -.00139 | -.00025 | .00000 |
| | GRADIENT | | | | | | | |

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0A145 TABULATED FORCE DATA

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AMES 118-1-11 0A145A 01

(DEF026) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

BETA = .000 ELEVON = 5.000
AILRON = .000 BOFLAP = .000
SPOBRK = 25.000 RUDDER = .000
RN/L = 5.000

PARAMETRIC DATA

RUN NO. 74/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|----------|----------|----------|----------|----------|--------|---------|
| 1.294 | -9.978 | 5.20010 | 4.72600 | 4.95050 | 5.02630 | -4.7410 | .07580 | -.02040 |
| 1.302 | -5.113 | 5.18070 | 4.71430 | 4.93070 | 5.01560 | -4.6640 | .08490 | -.02040 |
| 1.301 | -.095 | 5.18070 | 4.70270 | 4.92080 | 5.02630 | -4.7800 | .10550 | -.02040 |
| 1.296 | 2.465 | 5.18070 | 4.70270 | 4.96040 | 5.02630 | -4.7800 | .06590 | -.02040 |
| 1.295 | 4.992 | 5.17100 | 4.69110 | 4.90100 | 5.01560 | -4.7990 | .11460 | -.01020 |
| 1.295 | 7.034 | 5.17100 | 4.69110 | 4.80200 | 5.02630 | -4.7990 | .22430 | -.01020 |
| 1.295 | 8.077 | 5.17100 | 4.67950 | 4.91090 | 5.02630 | -4.9150 | .11540 | -.02040 |
| 1.293 | 10.156 | 5.17100 | 4.69110 | 4.89110 | 5.02630 | -4.7990 | .13520 | -.02040 |
| 1.292 | 12.229 | 5.18070 | 4.69110 | 4.91100 | 5.02630 | -4.8960 | .12530 | -.02040 |
| 1.294 | 15.342 | 5.16130 | 4.69110 | 4.90100 | 5.02630 | -4.7020 | .14510 | -.04080 |
| 1.286 | 20.321 | 5.14190 | 4.67950 | 4.88120 | 5.02630 | -4.6240 | .00175 | -.00200 |
| | GRADIENT | - .00190 | - .00228 | - .00385 | - .00210 | - .00037 | | |

RUN NO. 149/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|----------|---------|---------|---------|---------|--------|---------|
| 1.402 | -4.968 | 4.95760 | 4.83050 | 4.89110 | 4.93000 | -1.2710 | .03890 | -.06110 |
| 1.403 | .234 | 4.94790 | 4.83050 | 4.89110 | 4.93000 | -1.1740 | .03890 | -.06110 |
| 1.402 | 2.800 | 4.94790 | 4.83050 | 4.89110 | 4.93000 | -1.1740 | .03890 | -.06110 |
| 1.403 | 5.322 | 4.94790 | 4.81890 | 4.89110 | 4.93000 | -1.2900 | .03890 | -.06110 |
| 1.404 | 6.349 | 4.95760 | 4.81890 | 4.88120 | 4.93000 | -1.3870 | .04880 | -.06110 |
| 1.403 | 7.366 | 4.94790 | 4.81890 | 4.88120 | 4.93000 | -1.2900 | .05870 | -.07130 |
| 1.404 | 8.410 | 4.94790 | 4.80730 | 4.87130 | 4.93000 | -1.4060 | .05870 | -.07130 |
| 1.404 | 9.455 | 4.94790 | 4.81890 | 4.87130 | 4.93000 | -1.2900 | .00000 | .00000 |
| 1.402 | GRADIENT | - .00134 | .00000 | .00000 | .00000 | .00134 | | |

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OAI45 TABULATED FORCE DATA

PAGE 1314

AMES 118-1-11 OAI45A 01

(02F027) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETA = .000 ELEVON = 10.000
 AILRON = .000 BDFLAP = .000
 SPDRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 72/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|---------|----------|---------|---------|---------|---------|
| .597 | -9.884 | 10.38100 | 9.98860 | 10.14300 | 9.98610 | -.39240 | -.15690 | .00000 |
| .598 | -5.011 | 10.38100 | 9.98120 | 10.14300 | 9.98610 | -.40000 | -.15690 | .00000 |
| .597 | -.014 | 10.38100 | 9.98120 | 10.14300 | 9.98610 | -.40000 | -.15690 | .00000 |
| .597 | 2.519 | 10.38100 | 9.98120 | 10.14300 | 9.98610 | -.40000 | -.15690 | .00000 |
| .598 | 5.004 | 10.38100 | 9.98120 | 10.14300 | 9.98610 | -.40000 | -.15690 | .00000 |
| .598 | 7.068 | 10.38100 | 9.98120 | 10.12500 | 9.98610 | -.40000 | -.13940 | .00000 |
| .598 | 8.104 | 10.38100 | 9.98120 | 10.12500 | 9.98610 | -.40000 | -.13940 | .00000 |
| .598 | 10.130 | 10.38100 | 9.98120 | 10.13400 | 9.98610 | -.40000 | -.14810 | .00000 |
| .598 | 12.195 | 10.38100 | 9.98860 | 10.13400 | 9.98610 | -.39240 | -.14810 | .00000 |
| .598 | 15.250 | 10.38100 | 9.97350 | 10.13400 | 9.98610 | -.40770 | -.14810 | .00000 |
| .537 | 20.133 | 10.36800 | 9.97350 | 10.13400 | 9.98610 | -.39440 | -.14810 | -.02040 |
| GRADIENT | | .00000 | .00000 | -.00355 | .00000 | -.00000 | .00347 | .00000 |

RUN NO. 108/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|----------|----------|---------|---------|---------|---------|---------|
| .800 | -10.080 | 10.18200 | 10.11900 | 9.85300 | 9.94890 | -.06340 | .09590 | -.04080 |
| .804 | -4.823 | 10.18200 | 10.11900 | 9.85300 | 9.94890 | -.06340 | .09590 | -.04080 |
| .798 | .184 | 10.18200 | 10.11900 | 9.85300 | 9.95820 | -.06340 | .10520 | -.03060 |
| .799 | 2.664 | 10.18200 | 10.11900 | 9.85300 | 9.95820 | -.06340 | .10520 | -.04080 |
| .798 | 5.255 | 10.18200 | 10.11900 | 9.84420 | 9.94890 | -.06340 | .10470 | -.06110 |
| .802 | 8.396 | 10.19600 | 10.11900 | 9.83550 | 9.92100 | -.07670 | .08550 | -.08150 |
| .799 | 10.442 | 10.19600 | 10.11100 | 9.80030 | 9.93960 | -.08430 | .13930 | -.06110 |
| .798 | 12.484 | 10.19600 | 10.11900 | 9.82670 | 9.93960 | -.07670 | .11290 | -.06110 |
| .797 | 15.570 | 10.18200 | 10.11900 | 9.82670 | 9.93960 | -.06340 | .11290 | -.05100 |
| .791 | 20.487 | 10.16900 | 10.11900 | 9.94090 | 9.93960 | -.05020 | -.00130 | -.07130 |
| GRADIENT | | .00000 | .00000 | .00000 | .00133 | -.00000 | .00133 | .00030 |

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0A145 TABULATED FORCE DATA

PAGE 1315

(DEF027) (16 JUL 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

BETA = .000 ELEVON = 10.000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 100/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|----------|----------|---------|---------|---------|--------|--------|
| .901 | -10.262 | 10.16900 | 10.10400 | 9.92330 | 9.95820 | -.06550 | .03490 | .00000 |
| .902 | -5.022 | 10.15600 | 10.11100 | 9.93210 | 9.96750 | -.04450 | .03540 | .00000 |
| .903 | -.062 | 10.16900 | 10.11100 | 9.92330 | 9.98610 | -.05780 | .06280 | .00000 |
| .898 | 2.510 | 10.16900 | 10.11100 | 9.74760 | 9.97680 | -.05780 | .22920 | .00000 |
| .899 | 5.025 | 10.16900 | 10.11100 | 9.73000 | 9.97680 | -.05780 | .24680 | .02080 |
| .900 | 7.111 | 10.16900 | 10.11100 | 9.86180 | 9.96750 | -.05780 | .10570 | .02080 |
| .901 | 8.122 | 10.15600 | 10.11100 | 9.85300 | 9.97680 | -.04450 | .12380 | .03110 |
| .901 | 10.215 | 10.16900 | 10.11100 | 9.83550 | 9.97680 | -.05780 | .14130 | .04150 |
| .900 | 12.292 | 10.15600 | 10.10400 | 9.83550 | 9.97680 | -.05220 | .14130 | .02080 |
| .900 | 15.302 | 10.15600 | 10.10400 | 9.82670 | 9.96750 | -.05220 | .14080 | .00000 |
| .900 | 20.346 | 10.15600 | 10.11100 | 9.85300 | 9.96750 | -.04450 | .11450 | .00000 |
| GRADIENT | | -.00000 | -.00000 | -.06832 | -.00362 | .00000 | .06470 | .00000 |

RUN NO. 66/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|---------|---------|---------|---------|---------|---------|
| .951 | -9.876 | 10.39400 | 9.97350 | 9.61670 | 9.99540 | -.42100 | .37870 | -.03060 |
| .953 | -5.006 | 10.39400 | 9.96590 | 9.85300 | 9.99540 | -.42860 | .14240 | -.04080 |
| .951 | .023 | 10.39400 | 9.97350 | 9.87060 | 9.99540 | -.42100 | .12480 | -.01020 |
| .952 | 2.580 | 10.39400 | 9.96590 | 9.88820 | 9.98610 | -.42860 | .09790 | -.01020 |
| .949 | 5.074 | 10.39400 | 9.96590 | 9.87060 | 9.98610 | -.42860 | .11550 | -.02040 |
| .948 | 7.152 | 10.39400 | 9.96590 | 9.87060 | 9.98610 | -.42860 | .11550 | -.03060 |
| .951 | 8.172 | 10.39400 | 9.96590 | 9.87060 | 9.98610 | -.42860 | .11550 | -.03060 |
| .950 | 10.234 | 10.39400 | 9.96590 | 9.85300 | 9.98610 | -.42860 | .13310 | -.06110 |
| .951 | 12.319 | 10.38100 | 9.96590 | 9.85300 | 9.98610 | -.41530 | .13310 | -.05100 |
| .949 | 15.411 | 10.38100 | 9.96590 | 9.89700 | 9.98610 | -.41530 | .08910 | -.04080 |
| .951 | 20.846 | 10.38100 | 9.96590 | 9.87940 | 9.98610 | -.41530 | .10670 | -.08150 |
| GRADIENT | | .00000 | -.00297 | .00588 | -.00364 | -.00297 | -.01052 | .00000 |

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OAI45 TABULATED FORCE DATA

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ANES 119-1-11 OAI45A 01

(D2F027) (18 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = 10.000
 AILRON = .000 BDELAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 247/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|---------|---------|---------|--------|---------|
| 1.051 | -5.807 | 10.16900 | 10.14900 | 9.98610 | 9.98610 | -.01960 | .63950 | .15570 |
| 1.059 | -1.646 | 10.18200 | 10.14900 | 9.98610 | 9.98610 | -.03280 | .63950 | .15570 |
| 1.047 | 1.739 | 10.18200 | 10.14200 | 9.98610 | 9.98610 | -.04050 | .63950 | .13500 |
| 1.050 | 4.307 | 10.16900 | 10.14200 | 9.98610 | 9.98610 | -.02720 | .63950 | .11420 |
| 1.050 | 6.332 | 10.16900 | 10.14200 | 9.98610 | 9.98610 | -.02720 | .63950 | .12460 |
| 1.050 | 7.375 | 10.16900 | 10.14200 | 9.98610 | 9.98610 | -.02720 | .63950 | .07270 |
| 1.051 | 9.444 | 10.15600 | 10.14200 | 9.98610 | 9.98610 | -.01400 | .63950 | .08310 |
| 1.049 | 11.509 | 10.15600 | 10.14200 | 9.98610 | 9.98610 | -.01400 | .63950 | .09340 |
| 1.048 | 14.580 | 10.14200 | 10.14200 | 9.98610 | 9.98610 | -.00070 | .63950 | .09340 |
| GRADIENT | | -.00207 | -.00122 | -.00152 | .00000 | .00077 | .00152 | -.00693 |

RUN NO. 243/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|---------|---------|---------|--------|---------|
| 1.100 | -5.820 | 10.15600 | 10.14200 | 9.98610 | 9.98610 | -.01400 | .65690 | .05190 |
| 1.103 | -.800 | 10.15600 | 10.14200 | 9.98610 | 9.98610 | -.01400 | .65690 | .02080 |
| 1.100 | 1.763 | 10.14200 | 10.14200 | 9.98610 | 9.98610 | -.00070 | .65690 | .00000 |
| 1.099 | 4.271 | 10.14200 | 10.14200 | 9.98610 | 9.98610 | -.00070 | .65690 | .01040 |
| 1.101 | 6.350 | 10.12900 | 10.14200 | 9.98610 | 9.98610 | .01260 | .64820 | .01040 |
| 1.099 | 7.353 | 10.12900 | 10.14200 | 9.98610 | 9.98610 | .01260 | .65690 | .04150 |
| 1.100 | 9.428 | 10.12900 | 10.13400 | 9.98610 | 9.98610 | .00490 | .65690 | .06230 |
| 1.099 | 11.500 | 10.12900 | 10.13400 | 9.98610 | 9.98610 | .00490 | .65690 | .08310 |
| 1.100 | 14.580 | 10.12900 | 10.13400 | 9.98610 | 9.98610 | .00490 | .65690 | .06230 |
| GRADIENT | | -.00277 | .00000 | .00000 | .00000 | .00263 | .00000 | -.00207 |

RUN NO. 87/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|---------|---------|---------|---------|---------|
| 1.198 | -4.239 | 10.16900 | 10.10400 | 9.98480 | 9.94890 | -.06550 | -.03590 | -.04080 |
| 1.200 | .183 | 10.16900 | 10.09600 | 9.98480 | 9.94890 | -.07310 | -.03590 | -.05100 |
| 1.196 | 2.689 | 10.15600 | 10.09600 | 9.97610 | 9.94890 | -.05980 | -.02720 | -.05100 |
| 1.198 | 5.209 | 10.16900 | 10.09600 | 9.97610 | 9.94890 | -.07310 | -.02720 | -.04080 |
| 1.199 | 8.315 | 10.15600 | 10.09600 | 9.98480 | 9.94890 | -.05980 | -.03590 | -.05100 |
| 1.199 | 10.379 | 10.14200 | 10.08800 | 9.97610 | 9.94890 | -.05420 | -.02720 | -.04080 |
| 1.195 | 12.472 | 10.15600 | 10.08800 | 9.98480 | 9.93960 | -.06750 | -.04520 | -.05100 |
| 1.196 | 15.566 | 10.15600 | 10.09600 | 9.97610 | 9.94890 | -.05980 | -.02720 | -.05100 |
| 1.185 | 20.592 | 10.14200 | 10.08800 | 9.98480 | 9.93960 | -.05420 | -.04520 | -.06110 |
| GRADIENT | | -.00166 | -.00123 | -.00111 | .00000 | .00053 | .00111 | -.00157 |

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OAI145 TABULATED FORCE DATA

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(02F027) (16 JUL 77)

AMES 118-1-11 OAI145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6200 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = 10.000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 73/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|----------|---------|---------|---------|---------|---------|---------|
| 1.298 | -9.944 | 10.38100 | 9.98120 | 9.89700 | 9.98610 | -4.0000 | .08910 | -.02040 |
| 1.296 | -5.057 | 10.38100 | 9.97350 | 9.89700 | 9.97680 | -4.0770 | .07980 | -.01020 |
| 1.297 | -.013 | 10.36800 | 9.97350 | 9.88820 | 9.97680 | -.39440 | .08860 | -.02040 |
| 1.296 | 2.544 | 10.36800 | 9.97350 | 9.90580 | 9.97680 | -.39440 | .07100 | -.01020 |
| 1.295 | 5.037 | 10.36800 | 9.97350 | 9.91450 | 9.97680 | -.39440 | .06230 | -.01020 |
| 1.295 | 7.115 | 10.36800 | 9.98120 | 9.93210 | 9.97680 | -.38680 | .04470 | -.01020 |
| 1.295 | 8.161 | 10.36800 | 9.97350 | 9.94090 | 9.96750 | -.39440 | .02560 | -.01020 |
| 1.296 | 10.207 | 10.35500 | 9.97350 | 9.93210 | 9.98610 | -.38120 | .05400 | -.01020 |
| 1.295 | 12.302 | 10.36800 | 9.96590 | 9.90580 | 9.97680 | -.40210 | .07100 | -.01020 |
| 1.294 | 15.384 | 10.35500 | 9.96590 | 9.88820 | 9.97680 | -.38880 | .08860 | -.01020 |
| 1.281 | 20.334 | 10.36800 | 9.96590 | 9.90580 | 9.97680 | -.40210 | .07100 | -.04080 |
| | GRADIENT | -.00000 | .00000 | .00689 | -.00000 | .00000 | -.00689 | .00399 |

RUN NO. 150/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|----------|----------|---------|---------|---------|--------|---------|
| 1.402 | -4.954 | 10.16900 | 10.10400 | 9.78270 | 9.94890 | -.06550 | .16620 | -.08150 |
| 1.404 | .224 | 10.16900 | 10.10400 | 9.78270 | 9.94890 | -.06550 | .16620 | -.08150 |
| 1.403 | 2.777 | 10.16900 | 10.10400 | 9.78270 | 9.94890 | -.06550 | .16620 | -.08150 |
| 1.403 | 5.314 | 10.16900 | 10.10400 | 9.78270 | 9.94890 | -.06550 | .16620 | -.08150 |
| 1.403 | 6.299 | 10.16900 | 10.10400 | 9.77390 | 9.94890 | -.06550 | .17500 | -.07130 |
| 1.402 | 7.405 | 10.16900 | 10.10400 | 9.78270 | 9.94890 | -.06550 | .16620 | -.08150 |
| 1.402 | 8.391 | 10.16900 | 10.10400 | 9.78270 | 9.93960 | -.06550 | .15690 | -.08150 |
| 1.399 | 9.439 | 10.15600 | 10.09600 | 9.76520 | 9.93960 | -.05980 | .17440 | -.08150 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | -.00000 | .00000 | -.00000 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(DEF028) (16 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = 20.000
AILRON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 404/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|----------|----------|---------|---------|---------|
| .601 | -4.894 | 20.05700 | 20.17100 | 18.60800 | 20.12300 | .11360 | 1.51450 | -.08430 |
| .601 | .166 | 20.05700 | 20.17100 | 18.60800 | 20.12300 | .11360 | 1.51450 | -.08430 |
| .601 | 3.059 | 20.05700 | 20.17100 | 18.60800 | 20.12300 | .11360 | 1.50610 | -.08430 |
| .601 | 5.266 | 20.03800 | 20.18100 | 18.59800 | 20.11400 | .14330 | 1.51600 | -.08430 |
| .600 | 7.006 | 20.03800 | 20.17100 | 18.59800 | 20.11400 | .13270 | 1.51600 | -.08430 |
| .601 | 8.321 | 20.02800 | 20.17100 | 18.59800 | 20.11400 | .14230 | 1.51600 | -.08430 |
| .601 | 10.341 | 20.02800 | 20.17100 | 18.60800 | 20.12300 | .14230 | 1.51450 | -.08430 |
| .599 | 12.358 | 20.04700 | 20.17100 | 18.60800 | 20.12300 | .12320 | 1.51450 | -.08430 |
| .600 | 15.312 | 20.04700 | 20.17100 | 18.60800 | 20.11400 | .12320 | 1.50610 | -.08430 |
| GRADIENT | | -.00000 | .00000 | -.00000 | -.00100 | -.00000 | -.00094 | .00000 |

RUN NO. 408/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|----------|----------|--------|---------|---------|
| .759 | -4.697 | 20.04700 | 20.19200 | 18.38500 | 20.12300 | .14440 | 1.73740 | -.10070 |
| .799 | .170 | 20.02800 | 20.19200 | 18.38500 | 20.12300 | .16350 | 1.73740 | -.10070 |
| .799 | 2.721 | 20.02800 | 20.19200 | 18.38500 | 20.12300 | .16350 | 1.73740 | -.10070 |
| .796 | 5.301 | 20.02800 | 20.19200 | 18.38500 | 20.12300 | .16350 | 1.73740 | -.10070 |
| .797 | 7.286 | 19.98100 | 20.19200 | 18.38500 | 20.12300 | .21120 | 1.73740 | -.08430 |
| .798 | 8.328 | 20.03800 | 20.19200 | 18.38500 | 20.12300 | .15390 | 1.73740 | -.09250 |
| .796 | 10.431 | 20.04700 | 20.18100 | 18.38500 | 20.12300 | .13380 | 1.73740 | -.07610 |
| .797 | 12.298 | 20.04700 | 20.18100 | 18.38500 | 20.12300 | .13380 | 1.73740 | -.07430 |
| .793 | 15.276 | 20.03800 | 20.18100 | 18.38500 | 20.12300 | .14330 | 1.73740 | -.09250 |
| GRADIENT | | -.00274 | .00000 | .00000 | -.00000 | .00275 | .00000 | -.00000 |

RUN NO. 393/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|----------|----------|--------|---------|---------|
| .900 | -4.957 | 20.02800 | 20.17100 | 18.45000 | 20.12300 | .14230 | 1.67290 | .04150 |
| .900 | .113 | 20.01900 | 20.17100 | 18.45000 | 20.12300 | .15180 | 1.67290 | .00000 |
| .900 | 2.726 | 19.95200 | 20.17100 | 18.45000 | 20.12300 | .21860 | 1.67290 | .15570 |
| .902 | 5.316 | 19.94200 | 20.16000 | 18.45000 | 20.12300 | .21750 | 1.67290 | .27000 |
| .900 | 7.307 | 19.92300 | 20.16000 | 18.45000 | 20.13100 | .23660 | 1.68130 | .34260 |
| .899 | 8.305 | 19.89500 | 20.17100 | 18.45000 | 20.13100 | .27580 | 1.68130 | .19730 |
| .900 | 10.354 | 20.08600 | 20.17100 | 18.45000 | 20.13100 | .08500 | 1.68130 | -.20380 |
| .901 | 12.374 | 20.08600 | 20.17100 | 18.44000 | 20.13100 | .08500 | 1.68280 | .13500 |
| .900 | 15.401 | 20.07600 | 20.16000 | 18.44000 | 20.13100 | .08400 | 1.69120 | .09340 |
| GRADIENT | | -.00879 | -.00000 | .00000 | .00000 | .00883 | .00000 | .01173 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(D2F028) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

BETA = .000 ELEVON = 20.000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 394/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|----------|----------|---------|---------|---------|
| .951 | -4.975 | 20.05700 | 20.17100 | 18.43000 | 20.13100 | .11360 | 1.70110 | -.11210 |
| .951 | .136 | 20.05700 | 20.16000 | 18.43000 | 20.13100 | .10310 | 1.70110 | -.09170 |
| .949 | 2.705 | 20.05700 | 20.17100 | 18.43000 | 20.13100 | .11360 | 1.70110 | .00000 |
| .950 | 5.247 | 20.05700 | 20.16000 | 18.43000 | 20.12300 | .10310 | 1.69270 | -.06110 |
| .948 | 7.299 | 20.05700 | 20.17100 | 18.43000 | 20.13100 | .11360 | 1.70110 | .00000 |
| .950 | 8.324 | 20.05700 | 20.17100 | 18.43000 | 20.13100 | .11360 | 1.70110 | .19730 |
| .949 | 10.351 | 19.94200 | 20.16000 | 18.43000 | 20.13100 | .21750 | 1.70110 | .11420 |
| .950 | 12.400 | 19.93300 | 20.16000 | 18.43000 | 20.13100 | .22700 | 1.70110 | .06230 |
| .949 | 15.417 | 19.94200 | 20.15000 | 18.43000 | 20.12300 | .20760 | 1.69270 | -.01020 |
| GRADIENT | | .00000 | -.00030 | .00000 | -.00000 | -.00029 | -.00000 | .01309 |

RUN NO. 428/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|----------|----------|--------|---------|---------|
| 1.199 | -5.058 | 20.07600 | 20.15000 | 20.06000 | 20.13100 | .07410 | .07090 | -.13360 |
| 1.201 | -.019 | 20.07600 | 20.16000 | 20.06000 | 20.13100 | .08400 | .07090 | -.13360 |
| 1.194 | 2.673 | 20.05700 | 20.16000 | 20.06000 | 20.13100 | .10310 | .07090 | -.14180 |
| 1.198 | 5.227 | 20.04700 | 20.16000 | 20.06000 | 20.13100 | .11260 | .07090 | -.13360 |
| 1.199 | 7.264 | 20.04700 | 20.15000 | 20.06000 | 20.13100 | .10270 | .07090 | -.13360 |
| 1.197 | 8.275 | 20.04700 | 20.15000 | 20.05000 | 20.13100 | .10270 | .08110 | -.13360 |
| 1.198 | 10.314 | 20.04700 | 20.15000 | 20.06000 | 20.12300 | .10270 | .06250 | -.12540 |
| 1.198 | 12.357 | 20.00000 | 20.13000 | 20.06000 | 20.12300 | .13060 | .06250 | -.13360 |
| 1.185 | 15.359 | 19.93300 | 20.06100 | 20.06000 | 20.12300 | .12800 | .06250 | -.13360 |
| GRADIENT | | -.00706 | .00000 | .00000 | -.00000 | .00710 | -.00000 | -.00305 |

RUN NO. 427/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|----------|----------|---------|--------|---------|
| 1.301 | -4.964 | 20.06600 | 20.19200 | 20.06000 | 20.12300 | .12530 | .06250 | -.14180 |
| 1.299 | .045 | 20.06600 | 20.18100 | 20.05000 | 20.12300 | .11470 | .07270 | -.14180 |
| 1.295 | 2.660 | 20.06600 | 20.19100 | 20.06000 | 20.12300 | .11470 | .06250 | -.14180 |
| 1.293 | 5.190 | 20.06600 | 20.15000 | 20.06000 | 20.12300 | .08360 | .06250 | -.14180 |
| 1.292 | 7.240 | 20.06600 | 20.14000 | 20.06000 | 20.12300 | .07370 | .06250 | -.14180 |
| 1.293 | 8.271 | 20.06600 | 20.14000 | 20.06000 | 20.12300 | .07370 | .06250 | -.14180 |
| 1.293 | 10.324 | 20.04700 | 20.12000 | 20.06000 | 20.12300 | .07300 | .06250 | -.14180 |
| 1.293 | 12.317 | 20.04700 | 20.08100 | 20.06000 | 20.12300 | .03340 | .06250 | -.13360 |
| 1.292 | 15.341 | 20.04700 | 20.05100 | 20.06000 | 20.12300 | .00370 | .06250 | -.13360 |
| GRADIENT | | .00000 | -.00154 | -.00027 | .00000 | -.00149 | .00027 | -.00000 |

| REFERENCE DATA | | | | | | | | | |
|--|-----------|----------|----------|-----------|----------|----------|---------|----------|--------|
| SREF = | 2690.0000 | SO.FT. | XMRP = | 1076.6800 | IN. X0 | BETA = | .000 | ELEVON = | 20.000 |
| LREF = | 474.8100 | INCHES | YMRP = | .0000 | IN. Y0 | AILRON = | .000 | BDFLAP = | .000 |
| BREF = | 936.6800 | INCHES | ZMRP = | 375.0000 | IN. Z0 | SPDBRK = | 25.000 | RUDDER = | .000 |
| SCALE = | .0500 | | | | | RN/L = | 5.000 | | |
| PARAMETRIC DATA | | | | | | | | | |
| <div> <div>RUN NO. 416/ 0</div> <div>RN/L = 4.95</div> <div>GRADIENT INTERVAL = -5.00/ 5.00</div> </div> | | | | | | | | | |
| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL | |
| 1.403 | -4.943 | 20.05700 | 20.27700 | 18.31800 | 20.12300 | .21970 | 1.80430 | -.15000 | |
| 1.405 | .050 | 20.05700 | 20.25500 | 18.31800 | 20.12300 | .19850 | 1.80430 | -.15000 | |
| 1.401 | 2.758 | 20.05700 | 20.24500 | 18.31800 | 20.12300 | .18790 | 1.80430 | -.15000 | |
| 1.399 | 5.279 | 20.05700 | 20.20200 | 18.31800 | 20.12300 | .14540 | 1.80430 | -.15000 | |
| 1.398 | 7.295 | 20.05700 | 20.17100 | 18.31800 | 20.12300 | .11360 | 1.80430 | -.15000 | |
| 1.401 | 8.334 | 20.05700 | 20.16000 | 18.31800 | 20.12300 | .10310 | 1.80430 | -.15000 | |
| 1.400 | 10.368 | 20.05700 | 20.16000 | 18.31800 | 20.12300 | .10310 | 1.80430 | -.15000 | |
| 1.384 | 12.416 | 20.05700 | 20.12000 | 18.31800 | 20.12300 | .06340 | 1.80430 | -.14180 | |
| 1.383 | 15.441 | 20.05700 | 19.84300 | 18.40800 | 20.12300 | -.21370 | 1.71510 | -.14180 | |
| | GRADIENT | .00000 | -.00419 | -.00000 | .00000 | -.00414 | -.00000 | .00000 | |

| REFERENCE DATA | | | | | | | | | |
|---|-----------|----------|----------|-----------|----------|----------|---------|----------|--------|
| SREF = | 2690.0000 | SO.FT. | XMRP = | 1076.6800 | IN. X0 | BETA = | .000 | ELEVON = | -5.000 |
| LREF = | 474.8100 | INCHES | YMRP = | .0000 | IN. Y0 | AILRON = | .000 | BDFLAP = | .000 |
| BREF = | 936.6800 | INCHES | ZMRP = | 375.0000 | IN. Z0 | SPDBRK = | 25.000 | RUDDER = | .000 |
| SCALE = | .0500 | | | | | RN/L = | 5.000 | | |
| PARAMETRIC DATA | | | | | | | | | |
| <div> <div>RUN NO. 70/ 0</div> <div>RN/L = 4.99</div> <div>GRADIENT INTERVAL = -5.00/ 5.00</div> </div> | | | | | | | | | |
| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL | |
| .598 | -9.898 | -5.16380 | -4.85270 | -5.23000 | -5.00640 | .31110 | .22360 | .00000 | |
| .598 | -5.039 | -5.16380 | -4.85270 | -5.26300 | -4.97400 | .31110 | .28900 | .00000 | |
| .598 | -.054 | -5.17340 | -4.85270 | -5.32900 | -4.96320 | .32070 | .36580 | .01040 | |
| .598 | 2.478 | -5.17340 | -4.85270 | -5.29600 | -4.96320 | .32070 | .33280 | .01040 | |
| .598 | 4.976 | -5.16380 | -4.85270 | -5.29600 | -4.97400 | .31110 | .32200 | .01040 | |
| .598 | 7.044 | -5.16380 | -4.85270 | -5.27400 | -4.96320 | .31110 | .31080 | .01040 | |
| .598 | 8.049 | -5.17340 | -4.85270 | -5.28500 | -4.96320 | .32070 | .32180 | .01040 | |
| .598 | 10.106 | -5.17340 | -4.85270 | -5.29600 | -4.96320 | .32070 | .33280 | .02080 | |
| .598 | 12.176 | -5.18300 | -4.85270 | -5.28500 | -4.96320 | .33030 | .32180 | .02080 | |
| .598 | 15.224 | -5.18300 | -4.84160 | -5.31800 | -4.93080 | .38140 | .38720 | .03110 | |
| .599 | 20.067 | -5.18300 | -4.84160 | -5.32900 | -4.95240 | .34140 | .37660 | .01040 | |
| | GRADIENT | .00190 | -.00000 | .00658 | -.00214 | -.00190 | -.00872 | .00000 | |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(02F029) (18 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = -5.000
 AILRON = .000 BOFLAP = .000
 SPD8RK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 110/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|----------|----------|----------|----------|---------|---------|---------|
| .797 | -10.060 | -4.96230 | -4.95260 | -5.23000 | -4.96320 | .00970 | .26680 | -.06110 |
| .798 | -4.647 | -4.98150 | -4.95260 | -5.23000 | -4.96320 | .02890 | .26680 | -.05100 |
| .801 | .088 | -4.98150 | -4.95260 | -5.23000 | -4.96320 | .02890 | .26680 | -.05100 |
| .799 | .323 | -4.96230 | -4.96370 | -5.21900 | -4.96320 | -.00140 | .25580 | -.06110 |
| .799 | 2.223 | -4.98150 | -4.96370 | -5.23000 | -4.96320 | .01780 | .26680 | -.05100 |
| .799 | 5.185 | -4.98150 | -4.96370 | -5.23000 | -4.96320 | .01780 | .26680 | -.06110 |
| .796 | 8.765 | -4.97190 | -4.96370 | -5.24100 | -4.96320 | .00820 | .27780 | -.06110 |
| .797 | 10.544 | -4.98150 | -4.96370 | -5.24100 | -4.96320 | .01780 | .27780 | -.08150 |
| .796 | 12.336 | -4.97190 | -4.96370 | -5.23000 | -4.96320 | .00820 | .26680 | -.08150 |
| .798 | 15.472 | -4.97190 | -4.96370 | -5.21900 | -4.97400 | .00820 | .24500 | -.08150 |
| .797 | 20.289 | -4.98150 | -4.96370 | -5.21900 | -4.96320 | .01780 | .25580 | -.09170 |
| | GRADIENT | .00062 | -.00154 | .00035 | -.00000 | -.00216 | -.00035 | -.00033 |

RUN NO. 91/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|----------|----------|----------|----------|---------|--------|---------|
| .900 | -4.965 | -4.96230 | -4.96370 | -5.23000 | -4.98480 | -.00140 | .24520 | -.05100 |
| .900 | .064 | -4.97190 | -4.96370 | -5.23000 | -4.98480 | .00820 | .24520 | -.03060 |
| .900 | 2.601 | -4.98150 | -4.96370 | -5.24100 | -4.98480 | .01780 | .25620 | -.02040 |
| .898 | 5.113 | -4.98150 | -4.96370 | -5.23000 | -4.99560 | .01780 | .23440 | -.02040 |
| .900 | 8.188 | -4.98150 | -4.95260 | -5.23000 | -4.98480 | .02890 | .24520 | -.03060 |
| .901 | 10.243 | -4.97190 | -4.95260 | -5.21900 | -4.99560 | .01930 | .22340 | -.03060 |
| .901 | 12.311 | -4.98150 | -4.96370 | -5.21900 | -4.99560 | .01780 | .22340 | -.03060 |
| .900 | 15.399 | -4.99110 | -4.96370 | -5.23000 | -4.98480 | .02740 | .24520 | -.04080 |
| .900 | 20.535 | -4.99110 | -4.96370 | -5.21900 | -4.98480 | .02740 | .23420 | -.04080 |
| | GRADIENT | -.00245 | -.00000 | -.00125 | .00000 | .00245 | .00125 | .00405 |

AMES 118-1-11 OAI45A 01

(D2F029) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BRFF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = -5.000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 64/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|----------|----------|---------|---------|---------|
| .951 | -9.932 | -5.17340 | -4.83050 | -5.42800 | -4.95200 | .34200 | .47560 | -.04080 |
| .947 | -5.003 | -5.20220 | -4.83050 | -5.43900 | -4.96300 | .37170 | .47580 | -.02040 |
| .949 | .026 | -5.20220 | -4.83050 | -5.43900 | -4.97400 | .37170 | .45400 | -.02040 |
| .950 | 2.560 | -5.20220 | -4.83050 | -5.14200 | -4.97400 | .37170 | .16800 | -.02040 |
| .950 | 5.033 | -5.18300 | -4.83050 | -5.14200 | -4.95240 | .35250 | .18960 | -.02040 |
| .951 | 7.150 | -5.21180 | -4.83050 | -5.13100 | -4.96320 | .38130 | .16780 | -.03060 |
| .951 | 8.171 | -5.20220 | -4.83050 | -5.16400 | -4.95240 | .37170 | .21160 | -.03060 |
| .952 | 10.241 | -5.20220 | -4.83050 | -5.16400 | -4.95240 | .37170 | .21160 | -.03060 |
| .952 | 12.296 | -5.21180 | -4.83050 | -5.17500 | -4.96320 | .38130 | .21180 | -.02040 |
| .950 | 15.368 | -5.20220 | -4.83050 | -5.16400 | -4.96320 | .37170 | .20080 | .00000 |
| .950 | 20.668 | -5.21180 | -4.83050 | -5.18600 | -4.97400 | .38130 | .21200 | -.03060 |
| GRADIENT | | .00000 | .00000 | .11288 | .00000 | -.00000 | -.11288 | .00000 |

RUN NO. 245/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|----------|----------|---------|---------|---------|
| 1.052 | -.843 | -4.79920 | -4.86380 | -4.89110 | -4.90160 | -.06460 | -.01050 | .12460 |
| 1.052 | 1.790 | -4.79920 | -4.87490 | -4.91100 | -4.90160 | -.07570 | .00940 | .12460 |
| 1.049 | 4.238 | -4.80880 | -4.87490 | -4.91100 | -4.90160 | -.06610 | .00940 | .05190 |
| 1.048 | 6.482 | -4.81840 | -4.87490 | -4.91100 | -4.90160 | -.05650 | .00940 | .07270 |
| 1.049 | 7.340 | -4.79920 | -4.87490 | -4.91100 | -4.90160 | -.07570 | .00940 | .02080 |
| 1.051 | 9.446 | -4.79920 | -4.87490 | -4.92200 | -4.90160 | -.07570 | .02040 | .02080 |
| 1.049 | 11.487 | -4.80880 | -4.87490 | -4.92200 | -4.90160 | -.06610 | .02040 | .03110 |
| 1.041 | 14.452 | -4.80880 | -4.88600 | -4.91100 | -4.90160 | -.07720 | .00940 | .06230 |
| GRADIENT | | -.00187 | -.00221 | -.00396 | .00000 | -.00034 | .00396 | -.01413 |

RUN NO. 241/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|----------|----------|---------|---------|---------|
| 1.101 | -.816 | -4.78960 | -4.86380 | -4.88220 | -4.89240 | -.07420 | -.01020 | .02080 |
| 1.101 | 1.716 | -4.81840 | -4.87490 | -4.88220 | -4.89240 | -.05550 | -.01020 | .02080 |
| 1.098 | 4.255 | -4.81840 | -4.87490 | -4.88220 | -4.89240 | -.05650 | -.01020 | .02080 |
| 1.096 | 6.313 | -4.81840 | -4.87490 | -4.88220 | -4.89240 | -.05650 | -.01020 | .02080 |
| 1.099 | 7.313 | -4.82800 | -4.87490 | -4.88220 | -4.89240 | -.04690 | -.01020 | .02080 |
| 1.100 | 9.393 | -4.80880 | -4.87490 | -4.88220 | -4.90160 | -.06610 | -.01940 | .03110 |
| 1.100 | 11.453 | -4.82800 | -4.88600 | -4.88220 | -4.90160 | -.05800 | -.01940 | .01040 |
| 1.102 | 14.565 | -4.81840 | -4.88600 | -4.89110 | -4.90160 | -.06760 | -.01050 | .02080 |
| GRADIENT | | -.00568 | -.00219 | .00000 | .00000 | .00349 | .00000 | -.00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(DEF029) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = -5.000
 AILRON = .000 BOFLAP = .000
 SPDRK = 25.000 RUDDER = .000
 RN/L = 5.000

| RUN NO. 85/ 0 | | RN/L = 5.01 | | GRADIENT INTERVAL = -5.00/ 5.00 | | | | |
|---------------|--------|-------------|----------|---------------------------------|----------|---------|--------|---------|
| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
| 1.199 | -4.901 | -4.99110 | -4.96370 | -5.21900 | -4.98480 | .02740 | .23420 | -.03060 |
| 1.202 | .121 | -4.99110 | -4.97480 | -5.21900 | -4.98480 | .01630 | .23420 | -.04080 |
| 1.199 | 2.659 | -4.99110 | -4.97480 | -5.21900 | -4.98480 | .01630 | .23420 | -.04080 |
| 1.199 | 5.172 | -4.99110 | -4.97480 | -5.21900 | -4.98480 | .01630 | .23420 | -.04080 |
| 1.199 | 8.230 | -5.00070 | -4.97480 | -5.21900 | -4.98480 | .02590 | .23440 | -.03060 |
| 1.198 | 10.301 | -5.00070 | -4.98590 | -5.21900 | -4.98560 | .01480 | .23440 | -.03060 |
| 1.198 | 12.361 | -5.00070 | -4.98590 | -5.23000 | -4.98560 | .01480 | .23440 | -.03060 |
| 1.196 | 15.509 | -5.00070 | -4.98590 | -5.23000 | -4.98560 | .02440 | .21240 | -.04080 |
| 1.196 | 20.515 | -5.01030 | -4.98590 | -5.20800 | -4.99560 | .02440 | .21240 | -.04080 |
| GRADIENT | | -.00000 | -.00157 | -.00000 | -.00000 | -.00157 | .00000 | -.00144 |

| RUN NO. 76/ 0 | | RN/L = 5.07 | | GRADIENT INTERVAL = -5.00/ 5.00 | | | | |
|---------------|--------|-------------|----------|---------------------------------|----------|--------|--------|---------|
| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
| 1.303 | -5.142 | -5.18300 | -4.84160 | -5.20800 | -4.95240 | .34140 | .25560 | -.04080 |
| 1.300 | -.188 | -5.20220 | -4.85270 | -5.20800 | -4.97400 | .34950 | .23400 | -.05100 |
| 1.294 | 2.457 | -5.19260 | -4.84160 | -5.20800 | -4.97400 | .35100 | .23400 | -.05100 |
| 1.296 | 4.939 | -5.20220 | -4.84160 | -5.21900 | -4.97400 | .36060 | .24500 | -.05100 |
| 1.295 | 7.015 | -5.21180 | -4.85270 | -5.20800 | -4.98480 | .35910 | .23220 | -.05100 |
| 1.296 | 8.034 | -5.19260 | -4.85270 | -5.20800 | -4.97400 | .33990 | .23400 | -.05100 |
| 1.295 | 10.096 | -5.19260 | -4.84160 | -5.21900 | -4.98480 | .35100 | .23420 | -.05100 |
| 1.293 | 12.158 | -5.21180 | -4.85270 | -5.23000 | -4.97400 | .35910 | .25600 | -.06110 |
| 1.293 | 15.304 | -5.20220 | -4.85270 | -5.21900 | -4.98480 | .34950 | .23420 | -.07130 |
| 1.298 | 20.371 | -5.20220 | -4.85270 | -5.23000 | -4.98480 | .34950 | .24520 | -.09170 |
| GRADIENT | | .00004 | .00219 | -.00212 | .00000 | .00215 | .00212 | -.00000 |

| RUN NO. 148/ 0 | | RN/L = 4.98 | | GRADIENT INTERVAL = -5.00/ 5.00 | | | | |
|----------------|--------|-------------|----------|---------------------------------|----------|---------|---------|---------|
| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
| 1.402 | -4.954 | -4.97190 | -4.96370 | -5.23000 | -4.98480 | .00820 | .24520 | -.07130 |
| 1.404 | .191 | -4.98150 | -4.97480 | -5.23000 | -4.99560 | .00670 | .23440 | -.07130 |
| 1.403 | 2.735 | -4.98150 | -4.97480 | -5.23000 | -4.99560 | .00670 | .23440 | -.06110 |
| 1.401 | 5.256 | -4.98150 | -4.97480 | -5.23000 | -4.99560 | .00670 | .23440 | -.06110 |
| 1.402 | 7.336 | -4.98150 | -4.97480 | -5.23000 | -4.99560 | .00670 | .23440 | -.06110 |
| 1.403 | 8.355 | -4.98150 | -4.97480 | -5.23000 | -4.99560 | .00670 | .23440 | -.07130 |
| 1.403 | 10.435 | -4.98150 | -4.98590 | -5.24100 | -4.99560 | -.00440 | .24540 | -.07130 |
| 1.400 | 12.498 | -4.98150 | -4.98590 | -5.26300 | -5.00640 | -.00440 | .25660 | -.07130 |
| GRADIENT | | -.00134 | -.00155 | .00000 | -.00151 | -.00021 | -.00151 | .00113 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(02F030) (16 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETA = .000 ELEVON = -10.000
AILRON = .000 BDELAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 71/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|-----------|----------|-----------|----------|--------|---------|--------|
| .597 | -9.919 | -10.26500 | -9.94590 | -10.41500 | -9.87130 | .31890 | .54400 | .00000 |
| .598 | -5.037 | -10.27500 | -9.94590 | -10.38200 | -9.88120 | .32870 | .50040 | .00000 |
| .597 | -0.055 | -10.26500 | -9.94590 | -10.39300 | -9.88120 | .31890 | .51170 | .00000 |
| .598 | 2.472 | -10.26500 | -9.94590 | -10.38200 | -9.88120 | .31890 | .50040 | .00000 |
| .598 | 4.970 | -10.26500 | -9.93490 | -10.38200 | -9.87130 | .32990 | .51030 | .00000 |
| .597 | 7.018 | -10.27500 | -9.94590 | -10.37000 | -9.87130 | .32870 | .49910 | .00000 |
| .597 | 8.039 | -10.27500 | -9.93490 | -10.39300 | -9.87130 | .33970 | .52160 | .00000 |
| .597 | 10.092 | -10.26500 | -9.93490 | -10.33700 | -9.87130 | .32990 | .46540 | .00000 |
| .597 | 12.156 | -10.26500 | -9.94590 | -10.32600 | -9.87130 | .31890 | .45420 | .00000 |
| .597 | 15.217 | -10.27500 | -9.93490 | -10.34800 | -9.87130 | .33970 | .47670 | .01040 |
| .597 | 19.969 | -10.27500 | -9.94590 | -10.46000 | -9.87130 | .32870 | .58890 | .00000 |
| GRADIENT | | .00000 | .00219 | .00219 | .00197 | .00219 | -.00029 | .00000 |

RUN NO. 111/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|-----------|-----------|-----------|-----------|---------|--------|---------|
| .794 | -9.977 | -10.22600 | -10.00100 | -10.50500 | -10.00000 | .22420 | .50510 | -.03060 |
| .798 | -4.826 | -10.23500 | -10.00100 | -10.50500 | -10.00000 | .23400 | .50510 | -.04080 |
| .799 | .315 | -10.23500 | -10.00100 | -10.52800 | -10.00000 | .23400 | .52750 | -.05100 |
| .799 | 2.772 | -10.23500 | -10.01200 | -10.53900 | -10.01100 | .22290 | .52760 | -.06110 |
| .799 | 5.393 | -10.23500 | -10.00100 | -10.58400 | -10.01100 | .23400 | .57250 | -.04080 |
| .798 | 8.533 | -10.23500 | -10.00100 | -10.51600 | -10.00000 | .23400 | .51630 | -.05100 |
| .797 | 10.427 | -10.23500 | -10.01200 | -10.51600 | -10.00000 | .22290 | .51630 | -.05100 |
| .798 | 12.508 | -10.23500 | -10.00100 | -10.53900 | -10.01100 | .23400 | .52760 | -.06110 |
| .797 | 15.579 | -10.23500 | -10.00100 | -10.50500 | -10.01100 | .23400 | .49390 | -.04080 |
| .797 | 20.034 | -10.24500 | -10.01200 | -10.50500 | -10.01100 | .23270 | .49390 | -.07130 |
| GRADIENT | | .00000 | -.00123 | -.00447 | -.00123 | -.00124 | .00317 | -.00257 |

RUN NO. 90/ 0 RN/L = 5.07 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|-----------|-----------|-----------|-----------|---------|--------|---------|
| .902 | -4.920 | -10.23500 | -10.05700 | -10.50500 | -10.03400 | .17860 | .47150 | -.06110 |
| .901 | .112 | -10.23500 | -10.05700 | -10.50500 | -10.03400 | .17860 | .47150 | -.06110 |
| .900 | 2.636 | -10.23500 | -10.05700 | -10.53900 | -10.02200 | .17860 | .51640 | -.03060 |
| .899 | 5.190 | -10.23500 | -10.05700 | -10.51600 | -10.02200 | .17860 | .49390 | -.02040 |
| .900 | 8.267 | -10.24500 | -10.05700 | -10.50500 | -10.04500 | .18840 | .46030 | -.04080 |
| .899 | 10.322 | -10.23500 | -10.05700 | -10.49400 | -10.03400 | .17860 | .46030 | -.04080 |
| .899 | 12.392 | -10.23500 | -10.04600 | -10.48300 | -10.04500 | .18970 | .43790 | -.06110 |
| .898 | 15.478 | -10.23500 | -10.05700 | -10.50500 | -10.04500 | .18840 | .46030 | -.09170 |
| .899 | 20.509 | -10.24500 | -10.05700 | -10.49400 | -10.03400 | .18840 | .46030 | -.06110 |
| GRADIENT | | .00000 | .00000 | -.00386 | .00136 | -.00000 | .00510 | .00346 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETA = .000 ELEVON = -10.000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 65/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|-----------|----------|-----------|----------|--------|---------|---------|
| .950 | -9.889 | -10.25500 | -9.94590 | -10.44900 | -9.89110 | .30910 | .55790 | -.02040 |
| .951 | -5.036 | -10.26500 | -9.94590 | -10.48300 | -9.90100 | .31890 | .58170 | -.03060 |
| .948 | .010 | -10.26500 | -9.94590 | -10.52800 | -9.89110 | .31890 | .63650 | -.03060 |
| .950 | 2.542 | -10.26500 | -9.93490 | -10.49400 | -9.90100 | .32990 | .59290 | -.02040 |
| .951 | 5.061 | -10.26500 | -9.95700 | -10.47100 | -9.89110 | .30780 | .58030 | -.01020 |
| .951 | 7.132 | -10.26500 | -9.93490 | -10.49400 | -9.91090 | .32990 | .58300 | .00000 |
| .950 | 8.148 | -10.26500 | -9.94590 | -10.46000 | -9.89110 | .30910 | .56910 | -.01020 |
| .951 | 10.215 | -10.26500 | -9.94590 | -10.49400 | -9.90100 | .31890 | .59290 | -.02040 |
| .950 | 12.285 | -10.26500 | -9.94590 | -10.50500 | -9.92080 | .31890 | .58430 | -.01020 |
| .950 | 15.313 | -10.27500 | -9.95700 | -10.50500 | -9.91090 | .31760 | .59420 | .00000 |
| .951 | 20.630 | -10.27500 | -9.95700 | -10.49400 | -9.92080 | .31760 | .57310 | -.05100 |
| GRADIENT | | .00000 | .00434 | .01343 | -.00391 | .00434 | -.01722 | .00403 |

RUN NO. 246/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|-----------|----------|----------|----------|---------|---------|---------|
| 1.051 | -7.745 | -10.00000 | -9.92380 | -9.90100 | -9.91090 | .07640 | -.00990 | .15570 |
| 1.055 | 1.901 | -10.01000 | -9.93490 | -9.91090 | -9.91090 | .07510 | .00000 | .14540 |
| 1.050 | 4.209 | -10.01000 | -9.93490 | -9.92080 | -9.91090 | .07510 | .00990 | .14540 |
| 1.047 | 6.441 | -10.00000 | -9.92380 | -9.93070 | -9.91090 | .07640 | .01980 | .09340 |
| 1.049 | 7.299 | -10.01000 | -9.93490 | -9.94060 | -9.91090 | .07510 | .02970 | .10380 |
| 1.044 | 9.400 | -10.01000 | -9.92380 | -9.92080 | -9.91090 | .08620 | .00990 | .02080 |
| 1.045 | 11.240 | -10.01000 | -9.93490 | -9.93070 | -9.91090 | .07510 | .01980 | .01040 |
| 1.050 | 14.580 | -10.01000 | -9.93490 | -9.93070 | -9.91090 | .07510 | .01980 | .10380 |
| GRADIENT | | -.00206 | -.00229 | -.00399 | .00000 | -.00027 | .00399 | -.00212 |

RUN NO. 240/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|-----------|----------|----------|----------|--------|---------|---------|
| 1.102 | -5.846 | -9.98060 | -9.89050 | -9.89110 | -9.91090 | .09010 | -.01980 | .02080 |
| 1.103 | -1.331 | -9.99040 | -9.91270 | -9.86140 | -9.91090 | .07770 | -.04950 | .10380 |
| 1.103 | -.849 | -10.00000 | -9.90160 | -9.92080 | -9.91090 | .09850 | .00990 | .03110 |
| 1.105 | 1.191 | -9.99040 | -9.90160 | -9.92080 | -9.91090 | .08880 | .00390 | .00000 |
| 1.103 | 1.722 | -9.99040 | -9.90160 | -9.90100 | -9.91090 | .08880 | -.00990 | .03110 |
| 1.099 | 4.287 | -10.00000 | -9.91270 | -9.92080 | -9.91090 | .09850 | .00990 | .00000 |
| 1.101 | 7.358 | -9.99040 | -9.91270 | -9.90100 | -9.91090 | .07770 | -.00990 | -.01020 |
| 1.100 | 9.369 | -10.00000 | -9.91270 | -9.93070 | -9.91090 | .08750 | .01980 | -.07130 |
| 1.101 | 11.451 | -10.00000 | -9.91270 | -9.93070 | -9.91090 | .08750 | .01980 | -.08150 |
| 1.101 | 14.561 | -10.00000 | -9.91270 | -9.93070 | -9.91090 | .08750 | .01980 | .11420 |
| 1.094 | GRADIENT | -.00068 | .00128 | -.00616 | -.00000 | .00198 | .00616 | -.01374 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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ANES 118-1-11 OAI45A 01

(02F030) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETA = .000 ELEVON = -10.000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 84/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|-----------|-----------|-----------|-----------|--------|--------|---------|
| 1.199 | -4.740 | -10.22600 | -10.04600 | -10.50500 | -10.03400 | .17990 | .47150 | -.02040 |
| 1.200 | .260 | -10.23500 | -10.04600 | -10.50500 | -10.03400 | .18970 | .47150 | -.03060 |
| 1.204 | 2.811 | -10.23500 | -10.04600 | -10.53900 | -10.03400 | .18970 | .50520 | -.03060 |
| 1.200 | 5.369 | -10.23500 | -10.04600 | -10.55000 | -10.03400 | .18970 | .51640 | -.02040 |
| 1.199 | 8.447 | -10.24500 | -10.04600 | -10.52800 | -10.04500 | .19950 | .48280 | -.02040 |
| 1.197 | 10.524 | -10.24500 | -10.05700 | -10.52800 | -10.04500 | .18840 | .48280 | -.03060 |
| 1.198 | 12.584 | -10.23500 | -10.04600 | -10.56100 | -10.04500 | .18970 | .51650 | -.03060 |
| 1.202 | 15.689 | -10.24500 | -10.04600 | -10.53900 | -10.04500 | .19950 | .49400 | -.03060 |
| 1.197 | 21.028 | -10.24500 | -10.04600 | -10.56100 | -10.05600 | .19950 | .50530 | -.04080 |
| GRADIENT | | -.00128 | -.00000 | -.00388 | -.00000 | .00139 | .00385 | -.00145 |

RUN NO. 77/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|-----------|----------|-----------|----------|---------|---------|---------|
| 1.233 | -5.160 | -10.25500 | -9.93490 | -10.53900 | -9.89110 | .32010 | .64770 | -.01020 |
| 1.307 | .167 | -10.27500 | -9.94590 | -10.56100 | -9.89110 | .32870 | .67010 | -.01020 |
| 1.300 | 2.403 | -10.26500 | -9.94590 | -10.53900 | -9.89110 | .31890 | .64770 | -.01020 |
| 1.295 | 4.971 | -10.26500 | -9.94590 | -10.56100 | -9.90100 | .31890 | .66020 | -.01020 |
| 1.295 | 7.011 | -10.26500 | -9.94590 | -10.55000 | -9.91090 | .31890 | .63910 | .00000 |
| 1.296 | 8.027 | -10.26500 | -9.94590 | -10.56100 | -9.91090 | .31890 | .65030 | -.02040 |
| 1.295 | 10.092 | -10.26500 | -9.93490 | -10.53900 | -9.91090 | .32990 | .62790 | -.02040 |
| 1.291 | 12.163 | -10.26500 | -9.94590 | -10.56100 | -9.90100 | .31890 | .66020 | -.03040 |
| 1.294 | 15.274 | -10.26500 | -9.93490 | -10.56100 | -9.91090 | .32990 | .65030 | -.02040 |
| 1.287 | 20.524 | -10.27500 | -9.94590 | -10.52800 | -9.93070 | .32870 | .59690 | .00000 |
| GRADIENT | | .00195 | .00000 | .00000 | -.00193 | -.00191 | -.00193 | .00000 |

RUN NO. 147/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|-----------|-----------|-----------|-----------|---------|--------|---------|
| 1.402 | -4.996 | -10.24500 | -10.01200 | -10.52800 | -10.02200 | .23270 | .50520 | -.08150 |
| 1.403 | .131 | -10.24500 | -10.02400 | -10.56100 | -10.02200 | .22160 | .53880 | -.07130 |
| 1.402 | 2.765 | -10.24500 | -10.02400 | -10.53900 | -10.02200 | .22160 | .51640 | -.07130 |
| 1.402 | 5.218 | -10.24500 | -10.02400 | -10.55000 | -10.02200 | .22160 | .52760 | -.07130 |
| 1.400 | 7.302 | -10.24500 | -10.02400 | -10.55000 | -10.03400 | .22160 | .51640 | -.07130 |
| 1.402 | 8.316 | -10.24500 | -10.02400 | -10.57200 | -10.02200 | .22160 | .55010 | -.07130 |
| 1.403 | 10.413 | -10.24500 | -10.02400 | -10.49400 | -10.02200 | .22160 | .47150 | -.07130 |
| 1.397 | 12.522 | -10.24500 | -10.03500 | -10.53900 | -10.03200 | .21050 | .51640 | -.08150 |
| GRADIENT | | .00000 | -.00165 | -.00210 | .00000 | -.00153 | .00214 | .00141 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1327

AMES 118-1-11 0A145A 01

(D2F031) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8100 INCHES YMRP = .0000 IN. Y0
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
SCALE = .0500

BETA = .000 ELEVON = -20.000
AILRON = .000 BOFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

PARAMETRIC DATA

RUN NO. 405/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|----------|----------|----------|----------|--------|---------|---------|
| .600 | -4.979 | -20.0000 | -19.9860 | -19.9270 | -19.9300 | .01380 | -.00360 | -.09250 |
| .602 | .039 | -20.0100 | -19.9860 | -19.9270 | -19.9300 | .02380 | -.00360 | -.09250 |
| .601 | 2.602 | -20.0100 | -19.9860 | -19.9270 | -19.9300 | .02380 | -.00360 | -.08430 |
| .601 | 5.084 | -20.0100 | -19.9860 | -19.9270 | -19.9300 | .01210 | -.00360 | -.09250 |
| .601 | 7.127 | -20.0200 | -19.9980 | -19.9270 | -19.9300 | .02210 | -.00360 | -.08430 |
| .601 | 8.154 | -20.0200 | -19.9980 | -19.9270 | -19.9300 | .02210 | -.00360 | -.09250 |
| .600 | 10.184 | -20.0300 | -19.9980 | -19.9270 | -19.9300 | .03210 | -.00360 | -.08430 |
| .600 | 12.266 | -20.0300 | -19.9980 | -19.9270 | -19.9300 | .03210 | -.00360 | -.09250 |
| .598 | 15.311 | -20.0300 | -19.9980 | -19.9270 | -19.9300 | .03210 | .00650 | -.08430 |
| | GRADIENT | -.00141 | .00000 | .00000 | .00000 | .00141 | .00000 | .00093 |

RUN NO. 409/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|----------|----------|----------|----------|---------|--------|---------|
| .802 | -5.027 | -20.0300 | -19.9980 | -19.9270 | -19.9090 | .03210 | .01780 | -.11710 |
| .801 | .078 | -20.0500 | -19.9980 | -19.9160 | -19.9090 | .05210 | .00770 | -.10890 |
| .802 | 2.515 | -20.0600 | -19.9980 | -19.9160 | -19.9090 | .06210 | .00770 | -.11710 |
| .801 | 5.127 | -20.0800 | -19.9980 | -19.9160 | -19.9090 | .08210 | .00770 | -.10890 |
| .799 | 7.197 | -20.0800 | -19.9860 | -19.9160 | -19.9090 | .07380 | .00770 | -.10890 |
| .799 | 8.235 | -20.0700 | -19.9980 | -19.9160 | -19.9090 | .07210 | .00770 | -.10070 |
| .797 | 10.465 | -20.0600 | -19.9980 | -19.9270 | -19.9090 | .06210 | .01780 | -.10070 |
| .797 | 12.425 | -20.0000 | -19.9980 | -19.9270 | -19.9090 | .00210 | .01780 | -.10070 |
| .800 | 15.474 | -19.9920 | -19.9980 | -19.9270 | -19.9090 | -.00630 | .01780 | -.10070 |
| | GRADIENT | -.00410 | .00000 | .00000 | .00000 | .00410 | .00000 | -.00337 |

RUN NO. 392/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|----------|----------|----------|----------|--------|---------|---------|
| .901 | -5.058 | -20.0100 | -19.9980 | -19.9160 | -19.9090 | .01210 | .00770 | -.01020 |
| .902 | -.017 | -20.0200 | -19.9980 | -19.9160 | -19.9190 | .02210 | -.00360 | .03110 |
| .908 | 2.551 | -20.0200 | -19.9880 | -19.9270 | -19.9300 | .02210 | -.00360 | .08310 |
| .902 | 5.075 | -20.0200 | -19.9980 | -19.9270 | -19.9520 | .02210 | -.02500 | .11420 |
| .902 | 7.141 | -20.0200 | -19.9980 | -19.9270 | -19.9520 | .02210 | -.02500 | .22840 |
| .899 | 8.190 | -20.0200 | -19.9980 | -19.9270 | -19.9520 | .02210 | -.02500 | .21800 |
| .901 | 10.306 | -20.0200 | -19.9980 | -19.9270 | -19.9300 | .02210 | -.00360 | .17650 |
| .901 | 12.337 | -20.0300 | -20.0100 | -19.9270 | -19.9190 | .02040 | .00710 | .03110 |
| .901 | 15.364 | -20.0300 | -20.0100 | -19.9270 | -19.9190 | .02040 | .00710 | .03110 |
| .900 | | .00000 | .00000 | -.00428 | -.00428 | .00000 | -.00023 | .02025 |
| | GRADIENT | | | | | | | |

REFERENCE DATA

SREF = 2690.0000 SQ.FT.

LREF = 474.8100 INCHES

BREF = 936.6800 INCHES

SCALE = .0500

AMES 118-1-11 0A145A 01

1076.6800 IN. XO

.0000 IN. YO

375.0000 IN. ZO

PARAMETRIC DATA

BETA = .000

ELEVON = -20.000

AILRON = .000

BOFLAP = .000

SPDBRK = 25.000

RUDDER = .000

RN/L = 5.000

| RUN NO. 395/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | |
|--|--------|----------|----------|----------|----------|--------|---------|---------|--|
| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL | |
| .950 | -5.047 | -20.0000 | -19.9980 | -19.9160 | -19.9190 | .00210 | -.00300 | -.03060 | |
| .951 | -.014 | -20.0300 | -19.9980 | -19.9060 | -19.9090 | .03210 | -.00240 | .01040 | |
| .952 | 2.549 | -20.0800 | -19.9980 | -19.9160 | -19.9190 | .08210 | -.00300 | -.07130 | |
| .952 | 5.103 | -20.2900 | -19.9980 | -19.9160 | -19.9190 | .29210 | -.00300 | -.11210 | |
| .948 | 7.143 | -20.3100 | -19.9980 | -19.9160 | -19.9190 | .31210 | -.00300 | -.12230 | |
| .949 | 8.194 | -20.3100 | -19.9980 | -19.9160 | -19.9190 | .31210 | -.00300 | -.14270 | |
| .947 | 10.281 | -20.3700 | -20.0100 | -19.9060 | -19.9300 | .36040 | -.02380 | .09340 | |
| .940 | 12.739 | -20.3300 | -20.0100 | -19.9060 | -19.9300 | .32040 | -.02380 | .08310 | |
| .947 | 13.225 | -20.2300 | -20.0100 | -19.9060 | -19.9300 | .22040 | -.02380 | -.08150 | |
| .948 | 16.252 | -20.0400 | -20.0210 | -19.9060 | -19.9300 | .01870 | -.02380 | -.04080 | |
| GRADIENT | | -.01951 | .00000 | -.00390 | -.00390 | .01951 | -.00023 | -.03188 | |

| RUN NO. 429/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | |
|--|--------|----------|----------|----------|----------|----------|---------|---------|--|
| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RJ | ELV-RI | DELL | DELR | DRHL | |
| 1.199 | -5.078 | -10.0930 | -19.9980 | -19.9860 | -19.9190 | -9.90530 | .06670 | -.13360 | |
| 1.201 | -.066 | -10.4400 | -20.0100 | -19.9860 | -19.9190 | -9.56960 | .06670 | -.13360 | |
| 1.203 | 2.544 | -10.5500 | -20.0100 | -19.9860 | -19.9190 | -9.45960 | .06670 | -.13360 | |
| 1.199 | 5.087 | -10.5500 | -20.0100 | -19.9860 | -19.9300 | -9.45960 | .05600 | -.13360 | |
| 1.198 | 7.180 | -10.5500 | -20.0100 | -19.9860 | -19.9300 | -9.45960 | .05600 | -.13360 | |
| 1.199 | 8.232 | -10.6600 | -20.0100 | -19.9860 | -19.9300 | -9.34960 | .05600 | -.13360 | |
| 1.199 | 10.326 | -10.7700 | -20.0210 | -19.9860 | -19.9300 | -9.25130 | .05600 | -.14180 | |
| 1.199 | 12.353 | -10.5500 | -20.0330 | -19.9860 | -19.9300 | -9.48300 | .05600 | -.14180 | |
| 1.188 | 15.364 | -10.6600 | -20.0210 | -19.9860 | -19.9190 | -9.36130 | .06670 | -.14180 | |
| GRADIENT | | -.04215 | .00000 | -.00000 | .00000 | .04215 | -.00000 | .00000 | |

| RUN NO. 426/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | |
|--|--------|----------|----------|----------|----------|-----------|--------|---------|--|
| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL | |
| 1.300 | -5.078 | -10.2200 | -20.0100 | -19.9860 | -19.9300 | -9.78960 | .05600 | -.14180 | |
| 1.300 | -.041 | -10.5500 | -20.0210 | -19.9860 | -19.9300 | -9.47130 | .05600 | -.14180 | |
| 1.300 | 2.539 | -10.5500 | -20.0210 | -19.9860 | -19.9300 | -9.47130 | .05600 | -.14180 | |
| 1.297 | 5.072 | -10.6600 | -20.0210 | -19.9860 | -19.9300 | -9.36130 | .05600 | -.14180 | |
| 1.296 | 7.177 | -10.6600 | -20.0210 | -19.9860 | -19.9300 | -9.36130 | .05600 | -.14180 | |
| 1.295 | 8.210 | -10.0000 | -20.0330 | -19.9860 | -19.9300 | -10.03300 | .05600 | -.14180 | |
| 1.294 | 10.287 | -10.0930 | -20.0330 | -19.9860 | -19.9300 | -9.94040 | .05600 | -.13360 | |
| 1.294 | 12.296 | -10.0000 | -20.0330 | -19.9860 | -19.9300 | -10.03300 | .05600 | -.13360 | |
| 1.294 | 15.354 | -10.1100 | -20.0330 | -19.9860 | -19.9300 | -9.92300 | .05600 | -.13360 | |
| GRADIENT | | .00000 | .00000 | -.00000 | .00000 | .00000 | .00000 | .00000 | |

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OAI45 TABULATED FORCE DATA

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(02F031) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = -20.000
 ALLRON = .000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 417/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|-----------|-----------|-----------|-----------|-----------|--------|---------|
| 1.385 | -5.007 | -10.00000 | -20.01000 | -19.91600 | -19.90900 | -10.01000 | .00770 | -.15000 |
| 1.391 | .056 | -10.11000 | -20.02100 | -19.92700 | -19.90900 | -9.91130 | .01780 | -.14180 |
| 1.389 | 2.615 | -10.22000 | -20.02100 | -19.92700 | -19.90900 | -9.80130 | .01780 | -.14180 |
| 1.388 | 5.126 | -10.22000 | -20.02100 | -19.92700 | -19.90900 | -9.80130 | .01780 | -.14180 |
| 1.387 | 7.254 | -10.22000 | -20.02100 | -19.92700 | -19.91900 | -9.80130 | .00710 | -.14180 |
| 1.386 | 8.204 | -10.11000 | -20.03300 | -19.92700 | -19.91900 | -9.92300 | .00710 | -.14180 |
| 1.382 | 10.341 | -10.11000 | -20.03300 | -19.92700 | -19.91900 | -9.92300 | .00710 | -.14180 |
| 1.380 | 12.361 | -10.22000 | -20.03300 | -19.92700 | -19.91900 | -9.81300 | .00710 | -.14180 |
| 1.383 | 15.399 | -10.22000 | -20.03300 | -19.92700 | -19.91900 | -9.81300 | .00710 | -.12540 |
| | GRADIENT | -.04299 | .00000 | -.00000 | .00000 | .04299 | .00000 | .00000 |

AMES 118-1-11 OAI45A 01

(02F032) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = -30.000
 ALLRON = .000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 406/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|-----------|-----------|-----------|-----------|---------|---------|---------|
| .600 | -4.915 | -30.04400 | -30.05400 | -29.81200 | -30.00200 | -.01050 | -.18960 | -.08430 |
| .600 | .061 | -30.04400 | -30.05400 | -29.81200 | -30.01400 | -.01050 | -.20210 | -.09250 |
| .599 | 2.671 | -30.05400 | -30.06500 | -29.81200 | -30.01400 | -.01120 | -.20210 | -.09250 |
| .599 | 4.993 | -30.06400 | -30.06500 | -29.81200 | -30.01400 | -.00110 | -.20210 | -.09250 |
| .599 | 6.990 | -30.07400 | -30.05400 | -29.81200 | -30.01400 | .01980 | -.20210 | -.09250 |
| .598 | 7.990 | -30.07400 | -30.06500 | -29.81200 | -30.01400 | .00900 | -.20210 | -.09250 |
| .598 | 10.103 | -30.06400 | -30.05400 | -29.81200 | -30.01400 | .00970 | -.20210 | -.09250 |
| .598 | 11.990 | -30.06400 | -30.05400 | -29.81200 | -30.01400 | .00970 | -.20210 | -.09250 |
| .596 | 15.027 | -30.06400 | -30.05400 | -29.81200 | -30.01400 | .00970 | -.20210 | -.08430 |
| | GRADIENT | -.00194 | -.00127 | .00000 | -.00124 | .00072 | -.00129 | -.00085 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(02F032) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETA = .000 ELEVON = -30.000
 AILRON = .000 BOFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 410/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|-----------|-----------|-----------|-----------|----------|--------|---------|
| .800 | -5.011 | -30.07400 | -31.10400 | -29.81200 | -30.01400 | -1.03040 | -20210 | -1.1710 |
| .799 | .051 | -30.10400 | -31.10400 | -29.81200 | -30.01400 | -1.00010 | -20210 | -1.0890 |
| .801 | 2.562 | -30.11400 | -31.10400 | -29.81200 | -30.01400 | -.99000 | -20210 | -1.0890 |
| .799 | 5.077 | -30.12500 | -31.10400 | -29.81200 | -30.01400 | -.97990 | -20210 | -1.0890 |
| .800 | 7.135 | -30.12500 | -31.10400 | -29.80200 | -30.01400 | -.97990 | -21200 | -1.0890 |
| .799 | 8.176 | -30.13500 | -31.11500 | -29.80200 | -30.01400 | -.98000 | -21200 | -1.0070 |
| .798 | 10.260 | -30.12500 | -31.11500 | -29.80200 | -30.01400 | -.98000 | -21200 | -1.0070 |
| .797 | 12.328 | -30.13500 | -31.11500 | -29.80200 | -30.01400 | -.98000 | -21200 | -1.0070 |
| .797 | 15.372 | -30.12500 | -31.10400 | -29.80200 | -30.01400 | -.97990 | -21200 | -1.0070 |
| GRADIENT | | -.00398 | .00000 | .00000 | .00000 | .00402 | .00000 | .00000 |

RUN NO. 391/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|-----------|-----------|-----------|-----------|---------|---------|---------|
| .900 | -5.355 | -30.08400 | -30.04400 | -29.83200 | -30.02700 | .04060 | -19490 | -.01020 |
| .901 | .027 | -30.08400 | -30.04400 | -29.84200 | -30.01400 | .04060 | -17240 | .09340 |
| .903 | 2.544 | -30.08400 | -30.05400 | -29.84200 | -30.00200 | .02990 | -15990 | .14540 |
| .903 | 5.069 | -30.08400 | -30.04400 | -29.84200 | -30.00200 | .04060 | -15990 | .29070 |
| .902 | 7.149 | -30.08400 | -30.05400 | -29.84200 | -29.98900 | .02990 | -14730 | .22840 |
| .900 | 8.195 | -30.08400 | -30.04400 | -29.84200 | -29.97700 | .04060 | -13480 | .15570 |
| .897 | 10.245 | -30.09400 | -30.05400 | -29.84200 | -29.96400 | .04000 | -12220 | .00000 |
| .900 | 12.334 | -30.09400 | -30.05400 | -29.84200 | -29.95100 | .04000 | -10960 | -.02040 |
| .900 | 15.369 | -30.09400 | -30.04400 | -29.84200 | -29.92600 | .05070 | -.08450 | -.16310 |
| GRADIENT | | .00000 | -.00397 | .00000 | .00477 | -.00425 | .00497 | .02066 |

RUN NO. 396/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|-----------|-----------|-----------|-----------|---------|---------|---------|
| .948 | -5.067 | -30.06400 | -30.05400 | -29.83200 | -30.01400 | .00970 | -18230 | -.23440 |
| .949 | -4.312 | -30.07400 | -30.05400 | -29.83200 | -30.00200 | .01980 | -16980 | -.33630 |
| .950 | .014 | -30.07400 | -30.05400 | -29.83200 | -30.01400 | .01980 | -18230 | .01040 |
| .952 | 2.537 | -30.07400 | -30.05400 | -29.83200 | -30.00200 | .01980 | -18230 | .01040 |
| .952 | 5.068 | -30.07400 | -30.05400 | -29.83200 | -30.00200 | .01980 | -16980 | .20770 |
| .952 | 7.127 | -30.07400 | -30.06500 | -29.83200 | -30.01400 | .00900 | -18230 | .14540 |
| .949 | 8.181 | -30.07400 | -30.06500 | -29.83200 | -30.01400 | .00900 | -18230 | .10380 |
| .948 | 10.257 | -30.07400 | -30.06500 | -29.83200 | -30.01400 | .00900 | -18230 | .36340 |
| .950 | 12.340 | -30.07400 | -30.06500 | -29.83200 | -30.01400 | .00900 | -18230 | .33220 |
| .948 | 15.388 | -30.07400 | -30.06500 | -29.83200 | -30.01400 | .00900 | -18230 | .15570 |
| GRADIENT | | .00000 | .00000 | .00000 | -.00186 | -.00000 | -.00194 | .05382 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1331

ANES 118-1-11 OAI45A 01

(02F032) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

BETA = .000 ELEVON = -30.000
 AILRON = .000 BOFLAP = .000
 SPDRK = 25.000 RUDDER = .000
 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 430/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|-----------|-----------|-----------|-----------|--------|---------|---------|
| 1.199 | -5.156 | -30.07400 | -30.04400 | -29.92100 | -30.05200 | .03050 | -.13050 | -.13360 |
| 1.216 | -.053 | -30.11400 | -30.05400 | -29.91200 | -30.03900 | .06020 | -.12730 | -.13360 |
| 1.207 | 2.542 | -30.11400 | -30.05400 | -29.91200 | -30.03900 | .06020 | -.13980 | -.13360 |
| 1.200 | 5.103 | -30.12500 | -30.05400 | -29.92100 | -30.05200 | .07030 | -.13050 | -.13360 |
| 1.199 | 7.185 | -30.12500 | -30.05400 | -29.91200 | -30.05200 | .07030 | -.13980 | -.13360 |
| 1.199 | 8.259 | -30.12500 | -30.05400 | -29.91200 | -30.05200 | .07030 | -.13980 | -.13360 |
| 1.195 | 10.284 | -30.12500 | -30.06500 | -29.91200 | -30.05200 | .05960 | -.13980 | -.13360 |
| 1.193 | 12.245 | -30.12500 | -30.06500 | -29.92100 | -30.05200 | .05960 | -.13050 | -.14180 |
| 1.187 | 15.258 | -30.12500 | -30.06500 | -29.92100 | -30.05200 | .05960 | -.13050 | -.13360 |
| GRADIENT | | .00000 | -.00000 | .00000 | -.00501 | .00000 | -.00482 | .00000 |

RUN NO. 425/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|-----------|-----------|-----------|-----------|---------|---------|---------|
| 1.297 | -5.074 | -30.09400 | -30.05400 | -29.91200 | -30.03900 | .04000 | -.12730 | -.15000 |
| 1.295 | -.059 | -30.11400 | -30.05400 | -29.92100 | -30.03900 | .06020 | -.11800 | -.15000 |
| 1.298 | 2.504 | -30.11400 | -30.05400 | -29.92100 | -30.03900 | .06020 | -.11800 | -.15000 |
| 1.297 | 5.048 | -30.12500 | -30.06500 | -29.92100 | -30.03900 | .05960 | -.11800 | -.14180 |
| 1.295 | 7.132 | -30.12500 | -30.06500 | -29.92100 | -30.03900 | .05960 | -.11800 | -.14180 |
| 1.296 | 8.194 | -30.06400 | -30.07600 | -29.92100 | -30.03900 | -.01180 | -.11800 | -.15000 |
| 1.296 | 10.286 | -30.06400 | -30.06500 | -29.92100 | -30.03900 | -.00110 | -.11800 | -.14180 |
| 1.297 | 12.301 | -30.07400 | -30.06500 | -29.93100 | -30.05200 | .00900 | -.12120 | -.14180 |
| 1.295 | 15.339 | -30.07400 | -30.07600 | -29.92100 | -30.05200 | -.00170 | -.13050 | -.14180 |
| GRADIENT | | .00000 | .00000 | .00000 | .00000 | -.00000 | -.00000 | .00000 |

RUN NO. 424/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|-----------|-----------|-----------|-----------|--------|---------|---------|
| 1.400 | -5.098 | -30.07400 | -30.03300 | -29.91200 | -30.03900 | .04120 | -.12730 | -.15000 |
| 1.405 | -.047 | -30.09400 | -30.04400 | -29.91200 | -30.03900 | .05070 | -.12730 | -.15000 |
| 1.405 | 2.518 | -30.09400 | -30.04400 | -29.92100 | -30.03900 | .05070 | -.11800 | -.15000 |
| 1.403 | 5.044 | -30.09400 | -30.04400 | -29.92100 | -30.03900 | .05070 | -.11800 | -.15000 |
| 1.401 | 7.129 | -30.09400 | -30.04400 | -29.92100 | -30.03900 | .05070 | -.11800 | -.14180 |
| 1.400 | 8.183 | -30.09400 | -30.05400 | -29.92100 | -30.03900 | .04000 | -.11800 | -.15000 |
| 1.398 | 10.240 | -30.09400 | -30.05400 | -29.92100 | -30.03900 | .04000 | -.11800 | -.15000 |
| 1.399 | 12.285 | -30.09400 | -30.06500 | -29.92100 | -30.03900 | .02930 | -.11800 | -.15000 |
| 1.400 | 15.327 | -30.10400 | -30.06500 | -29.92100 | -30.03900 | .03940 | -.11800 | -.15000 |
| GRADIENT | | -.00000 | .00000 | -.00351 | -.00000 | .00000 | .00363 | .00000 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

AMES 118-1-11 OAI45A 01

(08F033) (22 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 261/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|-----------|-----------|-----------|-----------|---------|---------|--------|
| .600 | -30.001 | -30.08400 | -30.07600 | -29.84200 | -30.00200 | .00840 | -.15990 | .00000 |
| .599 | -19.959 | -20.01000 | -20.01000 | -19.91600 | -19.89800 | .00040 | .01840 | .00000 |
| .600 | -15.001 | -15.14000 | -14.95500 | -14.98400 | -14.92600 | .18560 | .05750 | .00000 |
| .599 | -9.929 | -9.99040 | -9.91270 | -9.89110 | -9.92080 | .07770 | -.02970 | .00000 |
| .599 | -5.990 | -6.04600 | -5.84480 | -6.08000 | -5.88920 | .20120 | .09080 | .00000 |
| .599 | -3.980 | -4.15140 | -3.85610 | -3.96790 | -3.94310 | .29530 | .02480 | .00000 |
| .599 | -1.972 | -2.00840 | -1.94070 | -1.97040 | -1.97020 | .06770 | .00020 | .00000 |
| .599 | .015 | .01700 | .00000 | .03450 | .00990 | -.01700 | -.02460 | .00000 |
| .599 | 1.964 | 1.98430 | 2.01440 | 1.87700 | 1.97980 | .03010 | .10280 | .00000 |
| .599 | 3.939 | 3.96180 | 3.91270 | 3.78000 | 4.10130 | -.04910 | .32130 | .00000 |
| .599 | 5.890 | 6.12440 | 5.81910 | 5.52570 | 6.09180 | -.30530 | .56610 | .00000 |
| .599 | 9.908 | 10.18200 | 10.14200 | 9.32050 | 9.98610 | -.04050 | .86560 | .00000 |
| .599 | 14.678 | 15.01500 | 15.03300 | 13.63400 | 15.02800 | .01800 | 1.39410 | .00000 |
| GRADIENT | | 1.02261 | .98575 | .97831 | 1.01337 | -.03586 | .03506 | .00000 |

AMES 118-1-11 0A145A 01

(02F034) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 68/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|-----------|----------|-----------|----------|---------|---------|---------|
| .599 | -10.101 | -10.27500 | -9.94590 | -10.38200 | -9.80200 | .32870 | .57970 | -.02040 |
| .599 | -8.095 | -8.15490 | -7.86920 | -8.38380 | -7.97030 | .28570 | .41350 | -.02040 |
| .599 | -6.046 | -6.16680 | -5.85470 | -6.26000 | -5.90280 | .31210 | .35720 | -.02040 |
| .599 | -4.011 | -4.16780 | -3.84570 | -4.09800 | -3.93170 | .32200 | .16630 | -.01020 |
| .598 | -2.987 | -3.18080 | -2.89000 | -3.04640 | -2.83260 | .29080 | .21380 | -.01020 |
| .598 | -2.017 | -2.17470 | -1.98230 | -1.97040 | -1.94080 | .19240 | .02960 | .00000 |
| .598 | -.991 | -1.09360 | -.97920 | -.96000 | -.92930 | .11440 | .03070 | .00000 |
| .598 | -.075 | -.08080 | -.06830 | -.12000 | -.03030 | .01250 | .08970 | .00000 |
| .597 | .975 | .85910 | .83620 | 1.12550 | 1.08080 | -.02290 | -.04470 | .00000 |
| .597 | 1.975 | 2.01640 | 1.82180 | 2.04240 | 2.02000 | -.19460 | -.02240 | .00000 |
| .597 | 2.954 | 3.00530 | 2.73920 | 2.98140 | 3.09000 | -.26610 | .10860 | .00000 |
| .597 | 3.935 | 4.08420 | 3.63540 | 3.93000 | 4.09210 | -.44880 | .16210 | .00000 |
| .597 | 5.909 | 6.21260 | 5.57460 | 5.76630 | 6.08160 | -.63800 | .31530 | .00000 |
| .597 | 8.130 | 8.35990 | 8.02330 | 7.98880 | 8.14680 | -.33660 | .15800 | .00000 |
| .597 | 10.064 | 10.40800 | 9.92000 | 9.89700 | 10.03300 | -.48780 | .13560 | .00000 |
| .598 | GRADIENT | 1.03924 | .94415 | 1.01264 | 1.00398 | -.09508 | -.00866 | .00120 |

RUN NO. 105/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|-----------|-----------|-----------|-----------|---------|---------|---------|
| .799 | -10.182 | -10.25500 | -10.00100 | -10.47100 | -10.00000 | .25360 | .47140 | -.02040 |
| .800 | -8.099 | -8.18080 | -7.91000 | -8.34340 | -7.96040 | .27080 | .38300 | -.02040 |
| .800 | -6.164 | -6.22250 | -5.89430 | -6.46000 | -6.08080 | .32820 | .37920 | -.01020 |
| .799 | -4.110 | -4.29840 | -3.91850 | -4.21390 | -4.00920 | .37990 | .20470 | -.01020 |
| .799 | -3.053 | -3.19980 | -2.95000 | -3.15360 | -2.90690 | .24980 | .24660 | -.01020 |
| .800 | -2.077 | -2.13640 | -2.00310 | -2.11720 | -2.04960 | .13320 | .06760 | -.01020 |
| .800 | -1.069 | -1.11440 | -1.03510 | -1.08650 | -1.03920 | .07820 | .04730 | -.01020 |
| .799 | -.031 | -.08080 | -.03420 | .00000 | -.01010 | .04650 | -.01010 | .00000 |
| .800 | .936 | .85910 | .90760 | 1.04510 | .93070 | .04850 | -.11450 | -.02040 |
| .799 | 1.923 | 1.85570 | 1.93950 | 1.96890 | 1.92930 | .08380 | -.03960 | -.02040 |
| .800 | 2.944 | 2.88180 | 2.95960 | 2.95350 | 2.98000 | .07780 | -.02650 | -.02040 |
| .799 | 3.960 | 3.90060 | 3.86320 | 4.03660 | 4.03680 | -.03740 | -.00280 | -.02040 |
| .799 | 5.949 | 6.07540 | 5.78150 | 5.90000 | 6.04080 | -.29390 | .14080 | -.03060 |
| .799 | 8.001 | 7.86580 | 8.19390 | 8.00640 | 7.93660 | .32810 | -.06970 | -.03060 |
| .799 | 10.055 | 10.18200 | 10.11100 | 9.96730 | 9.95820 | -.07110 | -.00910 | -.03060 |
| .799 | GRADIENT | 1.01206 | .97357 | 1.02266 | .99171 | -.03848 | -.03095 | -.00168 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 471.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 AILRON = .000 BDELAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

| RUN NO. 104/ 0 | | RN/L = 4.97 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|---------|-------------|-----------|---------------------------------|-----------|
| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI |
| .899 | -10.207 | -10.25500 | -10.03500 | -10.50500 | -10.03400 |
| .901 | -8.103 | -8.18940 | -7.92020 | -8.34340 | -7.96040 |
| .900 | -6.167 | -6.23180 | -5.91410 | -6.44000 | -6.08080 |
| .900 | -4.110 | -4.30650 | -3.91850 | -4.17820 | -4.03680 |
| .900 | -3.055 | -3.21880 | -2.95000 | -3.14290 | -2.90690 |
| .900 | -2.074 | -2.14600 | -2.01350 | -2.09760 | -2.04090 |
| .900 | -1.069 | -1.11440 | -1.04750 | -1.06730 | -1.04900 |
| .900 | -.031 | -.07070 | -.03420 | -.01000 | -.01010 |
| .899 | .934 | .83300 | .93820 | 1.04510 | .92080 |
| .900 | 1.942 | 1.87710 | 1.97160 | 2.98140 | 2.93940 |
| .899 | 2.958 | 2.90240 | 2.95960 | 4.06930 | 4.05520 |
| .900 | 3.975 | 3.91080 | 3.86320 | 5.94440 | 5.94080 |
| .899 | 5.958 | 6.06560 | 5.78150 | 8.05030 | 7.94750 |
| .900 | 8.006 | 7.84960 | 8.17590 | 10.02000 | 9.96750 |
| .900 | 10.067 | 10.16900 | 10.11100 | 1.02006 | .99303 |
| GRADIENT | | 1.01348 | .97343 | | |

| RUN NO. 67/ 0 | | RN/L = 5.02 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|---------------|---------|-------------|----------|---------------------------------|----------|
| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI |
| .952 | -10.077 | -10.25500 | -9.93490 | -10.31400 | -9.80200 |
| .951 | -8.071 | -8.16350 | -7.86920 | -8.26260 | -7.99010 |
| .952 | -6.022 | -6.15750 | -5.85470 | -6.14000 | -5.93520 |
| .953 | -4.003 | -4.17590 | -3.84570 | -4.03560 | -3.95450 |
| .951 | -2.954 | -3.19080 | -2.88000 | -2.91080 | -2.82390 |
| .953 | -1.993 | -2.16520 | -1.96150 | -1.91270 | -1.93100 |
| .952 | -1.029 | -1.09360 | -.97920 | -1.11530 | -.92930 |
| .952 | -.091 | -.08080 | -.02280 | -.26000 | .00000 |
| .953 | .904 | .87730 | .85660 | .79250 | 1.09090 |
| .952 | 1.937 | 2.01640 | 1.84320 | 1.85860 | 2.03000 |
| .952 | 2.920 | 3.02590 | 2.76120 | 2.81400 | 3.08000 |
| .953 | 3.895 | 4.08420 | 3.64530 | 3.72000 | 4.12890 |
| .953 | 5.914 | 6.21260 | 5.60280 | 5.81090 | 6.03060 |
| .953 | 8.132 | 8.36800 | 8.04120 | 7.96040 | 8.15850 |
| .952 | 10.055 | 10.40800 | 9.92000 | 9.87940 | 10.01400 |
| GRADIENT | | 1.05154 | .95460 | .97719 | 1.01667 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(D2F034) (16 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BDFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPOBRK = 25.000 RUDDER = .000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 437/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|-----------|----------|-----------|----------|---------|---------|---------|
| 1.099 | -9.974 | -10.01000 | -9.89050 | -10.08600 | -9.91090 | .11950 | .17550 | -.15000 |
| 1.101 | -7.958 | -8.00820 | -7.81820 | -8.11410 | -7.89110 | .19000 | .22300 | -.15000 |
| 1.101 | -6.005 | -6.04600 | -5.83490 | -6.14900 | -5.98920 | .21110 | .15980 | -.15000 |
| 1.101 | -3.989 | -4.16780 | -3.83530 | -4.01000 | -3.94310 | .33240 | .06690 | -.15000 |
| 1.101 | -2.940 | -3.04760 | -2.86000 | -3.02000 | -2.83260 | .18760 | .18740 | -.14180 |
| 1.100 | -1.982 | -1.99800 | -1.91990 | -2.02040 | -1.98870 | .07810 | .03170 | -.14180 |
| 1.101 | -.989 | -.97980 | -.95640 | -1.04860 | -.96970 | .02340 | .07890 | -.14180 |
| 1.101 | .020 | .01700 | .02040 | .11150 | .02970 | .00340 | .01820 | -.14180 |
| 1.101 | 1.008 | .94110 | .99940 | 1.15000 | .94060 | .05830 | -.20940 | -.14180 |
| 1.102 | 2.004 | 1.96290 | 2.01440 | 2.04880 | 1.98990 | .05150 | -.05890 | -.15000 |
| 1.101 | 3.033 | 2.98470 | 3.03670 | 3.16950 | 2.94000 | .05200 | -.22950 | -.14180 |
| 1.100 | 4.024 | 3.97200 | 3.92260 | 4.11010 | 4.09210 | -.04940 | -.01800 | -.15000 |
| 1.100 | 5.985 | 6.11460 | 5.82850 | 5.90500 | 6.09180 | -.28610 | .18680 | -.14180 |
| 1.100 | 8.013 | 7.88200 | 8.24780 | 7.93300 | 7.99110 | .36580 | .05810 | -.14180 |
| 1.100 | 10.074 | 10.16900 | 10.14900 | 9.99350 | 9.98610 | -.01960 | -.00740 | -.14180 |
| GRADIENT | | 1.00932 | .97675 | 1.02412 | .98983 | -.03256 | -.03429 | -.00027 |

RUN NO. 88/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|-----------|-----------|-----------|-----------|---------|---------|---------|
| 1.199 | -10.208 | -10.23500 | -10.04600 | -10.53900 | -10.01100 | .18970 | .52760 | -.05100 |
| 1.199 | -8.123 | -8.19800 | -7.94060 | -8.37370 | -7.98020 | .25740 | .39350 | -.04080 |
| 1.199 | -6.177 | -6.22250 | -5.94380 | -6.46000 | -6.08080 | .27870 | .37920 | -.05100 |
| 1.198 | -4.125 | -4.29840 | -3.94970 | -4.20500 | -4.04600 | .34870 | .15900 | -.05100 |
| 1.199 | -3.069 | -3.20930 | -2.97000 | -3.15360 | -2.94110 | .23930 | .21250 | -.05100 |
| 1.198 | -2.096 | -2.15560 | -2.03430 | -2.13680 | -2.05830 | .12120 | .07850 | -.05100 |
| 1.199 | -1.085 | -1.11440 | -1.08170 | -1.08650 | -1.05880 | .03270 | .02770 | -.04080 |
| 1.200 | -.048 | -.07070 | -.07970 | -.01000 | -.03030 | -.00900 | -.02030 | -.04080 |
| 1.199 | .917 | .85000 | .87700 | 1.02220 | .92080 | .02700 | -.10140 | -.05100 |
| 1.198 | 1.509 | 1.87710 | 1.91810 | 1.93210 | 1.90910 | .04100 | -.02300 | -.05100 |
| 1.199 | 2.933 | 2.90240 | 2.91550 | 2.94420 | 2.97000 | .01320 | .02580 | -.05100 |
| 1.199 | 3.933 | 3.87000 | 3.81370 | 4.00990 | 4.03680 | -.05630 | .02690 | -.05100 |
| 1.199 | 6.176 | 6.08520 | 5.74390 | 6.83330 | 6.04080 | -.34130 | -.79250 | -.04080 |
| 1.199 | 7.920 | 7.86580 | 8.17590 | 7.94080 | 7.93660 | .31010 | -.00420 | -.05100 |
| 1.198 | 10.028 | 10.16900 | 10.08800 | 9.91450 | 9.93960 | -.08070 | .02510 | -.05100 |
| GRADIENT | | 1.01316 | .97216 | 1.01913 | .99556 | -.04099 | -.02357 | -.00016 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1336

AMES 118-1-11 OAI45A 01

(02F034) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SO.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
AILRON = .000 BOFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 80/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|-----------|----------|-----------|----------|---------|---------|--------|
| 1.299 | -10.070 | -10.27500 | -9.95700 | -10.25800 | -9.79210 | .31760 | .46610 | .00000 |
| 1.298 | -8.047 | -8.15490 | -7.83860 | -8.36360 | -7.83170 | .31630 | .53200 | .00000 |
| 1.299 | -6.019 | -6.16680 | -5.86460 | -6.11000 | -5.93520 | .30220 | .17480 | .00000 |
| 1.298 | -3.995 | -4.19220 | -3.84570 | -3.98930 | -3.95450 | .34650 | .03480 | .00000 |
| 1.299 | -2.942 | -3.19030 | -2.87000 | -2.89120 | -2.81520 | .32030 | .07600 | .00000 |
| 1.299 | -1.973 | -2.15560 | -1.95110 | -1.85510 | -1.93100 | .20440 | -.07590 | .00000 |
| 1.299 | -.971 | -1.12480 | -.99060 | -.84000 | -.92930 | .13420 | -.08930 | .00000 |
| 1.300 | -.055 | -.10100 | -.06830 | -.03000 | -.02020 | .03270 | .00980 | .00000 |
| 1.298 | 1.028 | .86820 | .85660 | 1.29790 | 1.09090 | -.01160 | -.20700 | .01040 |
| 1.298 | 2.027 | 2.01640 | 1.83250 | 2.23740 | 2.02000 | -.18390 | -.21740 | .00000 |
| 1.298 | 3.027 | 3.01560 | 2.76120 | 3.25000 | 3.08000 | -.25440 | -.17000 | .00000 |
| 1.298 | 4.029 | 4.06380 | 3.64530 | 4.27720 | 4.12890 | -.41850 | -.14830 | .00000 |
| 1.297 | 6.028 | 6.19300 | 5.61220 | 6.27780 | 6.03060 | -.58080 | -.24720 | .01040 |
| 1.297 | 8.232 | 8.36800 | 8.04120 | 8.38420 | 8.13510 | -.32680 | -.24910 | .00000 |
| 1.296 | 10.133 | 10.36800 | 9.93530 | 10.19600 | 10.03300 | -.43270 | -.16320 | .00000 |
| GRADIENT | | 1.03283 | .93774 | 1.03035 | .99908 | -.09508 | -.03128 | .00017 |

RUN NO. 151/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|-----------|-----------|-----------|-----------|---------|---------|---------|
| 1.402 | -10.205 | -10.24500 | -10.02400 | -10.52800 | -10.02200 | .22160 | .50520 | -.08150 |
| 1.404 | -8.123 | -8.19800 | -7.94060 | -8.38380 | -7.97030 | .25740 | .41350 | -.07130 |
| 1.404 | -6.172 | -6.23180 | -5.92400 | -6.45000 | -6.08080 | .30780 | .36920 | -.07130 |
| 1.403 | -4.119 | -4.30650 | -3.92890 | -4.21390 | -4.02760 | .37760 | .18630 | -.08150 |
| 1.403 | -3.050 | -3.19980 | -2.95000 | -3.14290 | -2.90690 | .24980 | .23590 | -.08150 |
| 1.403 | -2.087 | -2.15560 | -2.02390 | -2.12700 | -2.04090 | .13160 | .08610 | -.07130 |
| 1.402 | -1.072 | -1.11440 | -1.04750 | -1.07690 | -1.04900 | .06680 | .02790 | -.07130 |
| 1.403 | -.039 | -.07070 | -.04550 | -.01000 | -.03030 | .02520 | -.02030 | -.07130 |
| 1.403 | .932 | .85910 | .90760 | 1.02220 | .94060 | .04850 | -.08160 | -.07130 |
| 1.402 | 1.912 | 1.86640 | 1.93950 | 1.91370 | 1.92930 | .07310 | .01560 | -.07130 |
| 1.402 | 2.931 | 2.89210 | 2.93750 | 2.91630 | 2.98000 | .04550 | .06370 | -.07130 |
| 1.401 | 3.940 | 3.89040 | 3.86320 | 3.96000 | 4.04600 | -.02720 | .08600 | -.07130 |
| 1.401 | 5.916 | 6.07540 | 5.77210 | 5.77520 | 6.04080 | -.30330 | .26560 | -.07130 |
| 1.401 | 7.958 | 7.85770 | 8.19390 | 7.82320 | 7.95840 | .33620 | .13520 | -.07130 |
| 1.401 | 10.008 | 10.18200 | 10.11100 | 9.79150 | 9.94890 | -.07110 | .15740 | -.07130 |
| GRADIENT | | 1.01496 | .97550 | 1.01450 | .99506 | -.03945 | -.01943 | .00119 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(DEF034) (16 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO AIRLON = .000 BDFLAP = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPOBRK = 25.000 RUDDER = .000
SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 437/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|-----------|----------|-----------|----------|---------|---------|---------|
| 1.099 | -9.974 | -10.01000 | -9.89050 | -10.08600 | -9.91090 | .11950 | .17550 | -.15000 |
| 1.101 | -7.958 | -8.00820 | -7.81820 | -8.11410 | -7.89110 | .19000 | .22300 | -.15000 |
| 1.101 | -6.005 | -6.04600 | -5.83490 | -6.14900 | -5.98920 | .21110 | .15980 | -.15000 |
| 1.101 | -3.989 | -4.16780 | -3.83530 | -4.01000 | -3.94310 | .33240 | .06690 | -.15000 |
| 1.101 | -2.940 | -3.04760 | -2.86000 | -3.02040 | -2.83260 | .18760 | .18740 | -.14180 |
| 1.100 | -1.982 | -1.99800 | -1.91990 | -2.02040 | -1.98870 | .07810 | .03170 | -.14180 |
| 1.101 | -.989 | -.97980 | -.95640 | -1.04860 | -.96970 | .02340 | .07890 | -.14180 |
| 1.101 | .020 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.14180 |
| 1.101 | 1.008 | .94110 | .99940 | 1.15000 | .94060 | .05830 | -.20940 | -.14180 |
| 1.102 | 2.004 | 1.96290 | 2.01440 | 2.04880 | 1.98990 | .05150 | -.05890 | -.15000 |
| 1.101 | 3.033 | 2.98470 | 3.03670 | 3.16950 | 2.94000 | .05200 | -.22950 | -.14180 |
| 1.100 | 4.024 | 3.97200 | 3.92260 | 4.11010 | 4.09210 | -.04940 | -.01800 | -.15000 |
| 1.100 | 5.985 | 6.11460 | 5.82850 | 5.90500 | 6.09180 | -.28610 | .18680 | -.14180 |
| 1.100 | 8.013 | 7.88200 | 8.24780 | 7.93300 | 7.99110 | .36580 | .05810 | -.14180 |
| 1.100 | 10.074 | 10.16900 | 10.14900 | 9.99350 | 9.98610 | -.01960 | -.00740 | -.14180 |
| GRADIENT | | 1.00932 | .97675 | 1.02412 | .98983 | -.03256 | -.03429 | -.00027 |

RUN NO. 88/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|-----------|-----------|-----------|-----------|---------|---------|---------|
| 1.199 | -10.208 | -10.23500 | -10.04600 | -10.53900 | -10.01100 | .18970 | .52760 | -.05100 |
| 1.199 | -8.123 | -8.19800 | -7.94060 | -8.37370 | -7.98020 | .23740 | .39350 | -.04080 |
| 1.199 | -6.177 | -6.22250 | -5.94380 | -6.46000 | -6.08080 | .27870 | .37920 | -.05100 |
| 1.198 | -4.125 | -4.29840 | -3.94970 | -4.20500 | -4.04600 | .34870 | .15900 | -.05100 |
| 1.199 | -3.069 | -3.20930 | -2.97000 | -3.15360 | -2.94110 | .29330 | .21250 | -.05100 |
| 1.198 | -2.096 | -2.15560 | -2.03430 | -2.13680 | -2.05830 | .12120 | .07850 | -.05100 |
| 1.199 | -1.085 | -1.11440 | -1.08170 | -1.08650 | -1.05880 | .03270 | .02770 | -.04080 |
| 1.200 | -.048 | -.07070 | -.07970 | -.01000 | -.03030 | -.00900 | -.02030 | -.04080 |
| 1.199 | .917 | .85000 | .87700 | 1.02220 | .92080 | .04700 | -.10140 | -.05100 |
| 1.198 | 1.509 | 1.87710 | 1.91810 | 1.93210 | 1.90910 | .04100 | -.02300 | -.05100 |
| 1.199 | 2.933 | 2.90240 | 2.91550 | 2.94420 | 2.97000 | .01320 | .02580 | -.05100 |
| 1.199 | 3.933 | 3.87000 | 3.81370 | 4.00990 | 4.03680 | -.05630 | .02690 | -.05100 |
| 1.199 | 6.176 | 6.08520 | 5.74390 | 6.83330 | 6.04080 | -.34130 | -.79250 | -.04080 |
| 1.199 | 7.980 | 7.86580 | 8.17590 | 7.94080 | 7.93660 | .31010 | -.00420 | -.05100 |
| 1.198 | 10.028 | 10.16900 | 10.08800 | 9.91450 | 9.93960 | -.08070 | .02510 | -.05100 |
| GRADIENT | | 1.01316 | .97216 | 1.01913 | .99556 | -.04099 | -.02357 | -.00016 |

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OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(02F034) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
AILRON = .000 BOFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 80/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|-----------|----------|-----------|----------|---------|---------|--------|
| 1.299 | -10.070 | -10.27500 | -9.95700 | -10.25800 | -9.79210 | .31760 | .46610 | .00000 |
| 1.298 | -8.047 | -8.15490 | -7.83860 | -8.36360 | -7.83170 | .31630 | .53200 | .00000 |
| 1.299 | -6.019 | -6.16680 | -5.86460 | -6.11000 | -5.93520 | .30220 | .17480 | .00000 |
| 1.298 | -3.995 | -4.19220 | -3.84570 | -3.98930 | -3.95450 | .34650 | .03480 | .00000 |
| 1.299 | -2.942 | -3.19030 | -2.87000 | -2.89120 | -2.81520 | .32030 | .07600 | .00000 |
| 1.299 | -1.973 | -2.15560 | -1.95110 | -1.85510 | -1.93100 | .20440 | -.07590 | .00000 |
| 1.299 | -.971 | -1.12480 | -.99060 | -.84000 | -.92930 | .13420 | -.08930 | .00000 |
| 1.300 | -.055 | -.10100 | -.06830 | -.03000 | -.02020 | .03270 | .00980 | .00000 |
| 1.298 | 1.028 | .86820 | .85660 | 1.29790 | 1.09090 | -.01160 | .01040 | .00000 |
| 1.298 | 3.027 | 2.01640 | 1.83250 | 2.23740 | 2.02000 | -.18390 | -.21740 | .00000 |
| 1.298 | 4.029 | 3.01560 | 2.76120 | 3.25000 | 3.08000 | -.25440 | -.17000 | .00000 |
| 1.298 | 6.028 | 4.06380 | 3.64530 | 4.27720 | 4.12890 | -.41850 | -.14830 | .00000 |
| 1.297 | 8.232 | 6.19300 | 5.61220 | 6.27780 | 6.03060 | -.58080 | -.24720 | .01040 |
| 1.296 | 10.133 | 8.36800 | 8.04120 | 8.38420 | 8.13510 | -.32680 | -.24910 | .00000 |
| GRADIENT | | 10.36800 | 9.93530 | 10.19600 | 10.03300 | -.43270 | -.16320 | .00000 |
| | | 1.03283 | .93774 | 1.03035 | .99908 | -.09508 | -.03128 | .00017 |

RUN NO. 151/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|-----------|-----------|-----------|-----------|---------|---------|---------|
| 1.402 | -10.205 | -10.24500 | -10.02400 | -10.52800 | -10.02200 | .22160 | .50520 | -.08150 |
| 1.404 | -8.123 | -8.19800 | -7.94060 | -8.38380 | -7.97030 | .25740 | .41350 | -.07130 |
| 1.404 | -6.172 | -6.23180 | -5.92400 | -6.45000 | -6.08080 | .30780 | .36920 | -.07130 |
| 1.403 | -4.119 | -4.30650 | -3.92890 | -4.21390 | -4.02760 | .37760 | .18630 | -.08150 |
| 1.403 | -3.050 | -3.19980 | -2.95000 | -3.14290 | -2.90690 | .24980 | .23590 | -.08150 |
| 1.403 | -2.087 | -2.15560 | -2.02390 | -2.12700 | -2.04090 | .13160 | .08610 | -.07130 |
| 1.402 | -1.072 | -1.11440 | -1.04750 | -1.07690 | -1.04900 | .06680 | .02790 | -.07130 |
| 1.403 | -.039 | -.07070 | -.04550 | -.01000 | -.03030 | .02520 | -.02030 | -.07130 |
| 1.403 | .932 | .85910 | .90760 | 1.02220 | .94060 | .04850 | -.08160 | -.07130 |
| 1.402 | 1.912 | 1.86640 | 1.93950 | 1.91370 | 1.92930 | .07310 | .01560 | -.07130 |
| 1.402 | 2.931 | 2.89210 | 2.93750 | 2.91630 | 2.98000 | .04550 | .06370 | -.07130 |
| 1.401 | 3.940 | 3.89040 | 3.86320 | 3.96000 | 4.04600 | -.02720 | .08600 | -.07130 |
| 1.401 | 5.916 | 6.07540 | 5.77210 | 5.77520 | 6.04080 | -.30320 | .26560 | -.07130 |
| 1.401 | 7.958 | 7.85770 | 8.19390 | 7.82320 | 7.95840 | .33620 | .13520 | -.07130 |
| 1.401 | 10.008 | 10.18200 | 10.11100 | 9.79150 | 9.94890 | -.07110 | .15740 | -.07130 |
| GRADIENT | | 1.01496 | .97550 | 1.01450 | .99506 | -.03945 | -.01943 | .00119 |

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OAI45 TABULATED FORCE DATA

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AMES 119-1-11 OAI45A 01

(02F035) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = .000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BDFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDBRK = 25.000 RUDDER = .000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

| RUN NO. 443/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | |
|--|----------|----------|----------|-----------|----------|---------|---------|---------|--|
| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL | |
| .897 | -9.972 | -9.97080 | -9.90160 | -10.08600 | -9.93070 | .08920 | .15570 | -.14180 | |
| .901 | -7.958 | -7.99960 | -7.82840 | -8.10350 | -7.90100 | .17120 | .20250 | -.14180 | |
| .901 | -6.010 | -6.04600 | -5.84480 | -6.14900 | -6.00000 | .20120 | .14900 | -.14180 | |
| .900 | -3.990 | -4.15960 | -3.85610 | -4.00000 | -3.94310 | .30350 | .05690 | -.14180 | |
| .901 | -2.952 | -3.06660 | -2.87000 | -3.03000 | -2.84130 | .19660 | .18870 | -.14180 | |
| .901 | -1.984 | -1.99800 | -1.94070 | -2.01020 | -1.98870 | .05730 | .02150 | -.14180 | |
| .901 | -.991 | -.97980 | -.96780 | -1.04860 | -.96970 | .01200 | .07890 | -.13360 | |
| .901 | .020 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.13360 | |
| .901 | 1.003 | .94110 | .98920 | 1.08100 | 1.00000 | .04810 | -.08100 | -.13360 | |
| .902 | 2.004 | 1.96290 | 2.01440 | 2.04880 | 1.98990 | .05150 | -.05890 | -.14180 | |
| .900 | 3.017 | 2.96410 | 3.00370 | 3.16950 | 2.93050 | .03960 | -.23950 | -.13360 | |
| .901 | 4.014 | 3.96180 | 3.92260 | 4.09030 | 4.08290 | -.03920 | -.00740 | -.13360 | |
| .901 | 5.974 | 6.12440 | 5.80970 | 5.88200 | 6.08160 | -.31470 | .19960 | -.13360 | |
| .900 | 8.005 | 7.86580 | 8.23880 | 7.92320 | 7.99110 | .37300 | .06790 | -.13360 | |
| .900 | 10.075 | 10.16900 | 10.13400 | 9.93350 | 10.00500 | -.03490 | .01120 | -.13360 | |
| | GRADIENT | 1.00878 | .97844 | 1.02191 | .99087 | -.03033 | -.03104 | .00096 | |

| RUN NO. 440/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | |
|--|----------|-----------|----------|-----------|----------|---------|---------|---------|--|
| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL | |
| .950 | -9.985 | -10.00000 | -9.91270 | -10.09600 | -9.93070 | .08750 | .16500 | -.13360 | |
| .954 | -7.958 | -7.99960 | -7.82840 | -8.10350 | -7.90100 | .17120 | .20250 | -.13360 | |
| .953 | -6.003 | -6.03670 | -5.82500 | -6.14900 | -6.00000 | .21170 | .14900 | -.13360 | |
| .952 | -3.987 | -4.15960 | -3.84570 | -4.00000 | -3.94310 | .31380 | .05690 | -.13360 | |
| .951 | -2.950 | -3.05710 | -2.88000 | -3.02000 | -2.84130 | .17710 | .17870 | -.14180 | |
| .952 | -1.985 | -2.00840 | -1.94070 | -2.01020 | -1.98000 | .06770 | .03020 | -.14180 | |
| .952 | -.991 | -.97980 | -.96780 | -1.04860 | -.96970 | .01200 | .07890 | -.13360 | |
| .952 | .017 | .01700 | .02040 | .01150 | .01980 | .00340 | .00830 | -.14180 | |
| .951 | 1.006 | .95020 | .98920 | 1.09250 | .99010 | .03900 | -.10240 | -.14180 | |
| .951 | 2.002 | 1.96290 | 2.01440 | 2.02860 | 2.00000 | .05150 | -.02860 | -.14180 | |
| .951 | 3.025 | 2.99500 | 3.01470 | 3.05210 | 3.04000 | .01970 | -.01210 | -.13360 | |
| .951 | 4.007 | 3.95160 | 3.91270 | 4.08040 | 4.08290 | -.03890 | .00250 | -.13360 | |
| .951 | 5.982 | 6.11460 | 5.82850 | 5.89350 | 6.09180 | -.28610 | .19830 | -.13360 | |
| .951 | 8.009 | 7.87390 | 8.22980 | 7.94280 | 7.99110 | .35590 | .04830 | -.13360 | |
| .950 | 10.071 | 10.16900 | 10.13400 | 9.98480 | 9.99540 | -.03490 | .01060 | -.14180 | |
| | GRADIENT | 1.01006 | .97852 | 1.01476 | .99665 | -.03153 | -.01811 | .00027 | |

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0A145 TABULATED FORCE DATA

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AMES 118-1-11 0A145A 01

(02F036) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 10.000 BETA = .000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BOFLAP = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPOBRK = 25.000 RUDDER = .000
SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 442/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|-----------|----------|---------|---------|---------|
| .899 | -9.977 | -9.99040 | -9.90160 | -10.09600 | -9.92080 | .08860 | .17490 | -.10890 |
| .902 | -7.968 | -8.00820 | -7.82840 | -8.14580 | -7.89110 | .17980 | .25480 | -.11710 |
| .901 | -6.003 | -6.03670 | -5.82500 | -6.14900 | -6.00000 | .21170 | .14900 | -.11710 |
| .899 | -3.982 | -4.15960 | -3.83530 | -3.98000 | -3.95450 | .32420 | .02550 | -.10890 |
| .902 | -2.945 | -3.04760 | -2.88000 | -3.02000 | -2.83260 | .16760 | .18740 | -.11710 |
| .900 | -1.989 | -1.99800 | -1.93030 | -2.03060 | -1.99740 | .06770 | .03320 | -.11710 |
| .900 | -.986 | -.95960 | -.96780 | -1.04860 | -.96970 | -.00820 | .07890 | -.11710 |
| .898 | .012 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -.11710 |
| .900 | .997 | .94110 | .97900 | 1.06950 | 1.00000 | .03790 | -.06950 | -.10890 |
| .901 | 2.001 | 1.96290 | 2.00370 | 2.04880 | 1.98990 | .04080 | -.05890 | -.10890 |
| .901 | 3.026 | 2.98470 | 3.02570 | 3.05210 | 3.04000 | .04100 | -.01210 | -.10070 |
| .900 | 4.015 | 3.97200 | 3.91270 | 4.09030 | 4.08290 | -.05930 | -.00740 | -.10070 |
| .900 | 5.983 | 6.11460 | 5.80970 | 5.91650 | 6.09180 | -.30490 | .17530 | -.11710 |
| .900 | 8.008 | 7.89010 | 8.22980 | 7.93300 | 7.98020 | .33970 | .04720 | -.10890 |
| .901 | 10.074 | 10.15600 | 10.14200 | 10.00200 | 9.99540 | -.01400 | -.00680 | -.10890 |
| GRADIENT | | 1.00970 | .97762 | 1.01517 | .99753 | -.03208 | -.01764 | .00178 |

RUN NO. 441/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|-----------|----------|---------|---------|---------|
| .950 | -9.969 | -9.99040 | -9.87940 | -10.07700 | -9.93070 | .11100 | .14640 | -.11710 |
| .950 | -7.958 | -8.00820 | -7.81820 | -8.11410 | -7.89110 | .19000 | .22300 | -.13360 |
| .950 | -6.002 | -6.04600 | -5.82500 | -6.14900 | -5.98920 | .22100 | .15980 | -.11710 |
| .951 | -3.981 | -4.17590 | -3.82490 | -3.99000 | -3.93170 | .35100 | .05830 | -.11710 |
| .950 | -2.945 | -3.04760 | -2.88000 | -3.02000 | -2.83260 | .16760 | .18740 | -.12540 |
| .950 | -1.977 | -1.99800 | -1.93030 | -2.00000 | -1.98000 | .06770 | .02000 | -.11710 |
| .952 | -.989 | -.96970 | -.96780 | -1.05930 | -.95960 | .00190 | .09970 | -.12540 |
| .951 | .012 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -.13360 |
| .951 | 1.003 | .95020 | .98920 | 1.08100 | .99010 | .03900 | -.09090 | -.12540 |
| .950 | 2.004 | 1.97360 | 2.02510 | 2.03870 | 1.97980 | .05150 | -.05890 | -.13360 |
| .950 | 3.023 | 2.97440 | 3.02570 | 3.05210 | 3.04000 | .05130 | -.01210 | -.11710 |
| .950 | 4.017 | 3.96180 | 3.91270 | 4.11010 | 4.08290 | -.04910 | -.02720 | -.11710 |
| .949 | 5.982 | 6.12440 | 5.81910 | 5.89350 | 6.09180 | -.30530 | .19830 | -.11710 |
| .949 | 8.009 | 7.88200 | 8.22080 | 7.94280 | 7.99110 | .33880 | .04830 | -.11710 |
| .949 | 10.067 | 10.15600 | 10.14200 | 9.98480 | 9.98610 | -.01400 | .00130 | -.11710 |
| GRADIENT | | 1.01052 | .97804 | 1.01644 | .99499 | -.03248 | -.02145 | -.00013 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1339

AMES 118-1-11 0A145A 01

(D2F037) (22 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

ALPHA = 5.000 BETA = 2.000
AILRON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

PARAMETRIC DATA

RUN NO. 0/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|-----------|-----------|-----------|-----------|---------|---------|--------|
| .599 | -29.998 | -30.06400 | -30.08600 | -29.84200 | -30.00200 | -.02250 | -.15990 | .00000 |
| .600 | -19.961 | -20.01000 | -19.98600 | -19.92700 | -19.91900 | .02380 | .00710 | .00000 |
| .600 | -15.003 | -15.12900 | -14.97500 | -14.98400 | -14.92600 | .15390 | .05750 | .00000 |
| .600 | -9.931 | -9.99040 | -9.90160 | -9.90100 | -9.93070 | .08880 | -.02970 | .00000 |
| .599 | -5.985 | -6.03670 | -5.84480 | -6.09000 | -5.96760 | .19190 | .12240 | .00000 |
| .599 | -3.981 | -4.16780 | -3.84570 | -3.95710 | -3.95450 | .32200 | .00270 | .00000 |
| .599 | -1.972 | -2.00840 | -1.94070 | -1.97040 | -1.97020 | .06770 | .00020 | .00000 |
| .599 | .014 | .00000 | .00000 | .04590 | .00990 | .00000 | -.03600 | .00000 |
| .599 | 1.966 | 1.97360 | 2.01440 | 1.87700 | 2.00000 | .04080 | .12300 | .00000 |
| .599 | 3.941 | 3.95160 | 3.93250 | 3.78000 | 4.10130 | -.01910 | .32130 | .00000 |
| .598 | 5.888 | 6.12440 | 5.80970 | 5.51680 | 6.10200 | -.31470 | .58520 | .00000 |
| .599 | 9.914 | 10.20900 | 10.14200 | 9.31180 | 9.99540 | -.06700 | .68360 | .00000 |
| .598 | 14.673 | 15.01500 | 15.03300 | 13.61600 | 15.02800 | .01800 | 1.41190 | .00000 |
| GRADIENT | | 1.02215 | .98617 | .97669 | 1.01501 | -.03597 | .03830 | .00000 |

RUN NO. 0/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|-----------|-----------|-----------|-----------|---------|---------|---------|
| .800 | -29.992 | -30.06400 | -30.04400 | -29.83200 | -30.02700 | .02040 | -.19490 | -.04080 |
| .802 | -19.961 | -20.01000 | -20.01000 | -19.90600 | -19.91900 | .00040 | -.01310 | .00000 |
| .800 | -15.007 | -15.15100 | -14.97500 | -14.97400 | -14.92600 | .17600 | .04770 | -.05100 |
| .801 | -9.926 | -10.00000 | -9.91270 | -9.88120 | -9.91090 | .08750 | -.02970 | -.04080 |
| .800 | -5.993 | -6.02740 | -5.85470 | -6.09000 | -6.00000 | .17270 | .09000 | .06230 |
| .800 | -3.980 | -4.17590 | -3.85610 | -3.95710 | -3.93170 | .31980 | .02550 | .00000 |
| .801 | -1.977 | -2.00840 | -1.95110 | -1.96080 | -1.98870 | .05730 | -.02790 | -.05100 |
| .800 | .016 | .00000 | .00000 | .04590 | .01980 | .00000 | -.02610 | .03110 |
| .800 | 1.966 | 1.97360 | 2.00370 | 1.88620 | 2.00000 | .03010 | .11380 | .00000 |
| .799 | 3.942 | 3.96180 | 3.82260 | 3.73000 | 4.09210 | -.03920 | .30210 | .01040 |
| .800 | 5.892 | 6.10480 | 5.82850 | 5.53470 | 6.10200 | -.27630 | .56740 | -.03060 |
| .799 | 9.905 | 10.15600 | 10.14900 | 9.32920 | 9.98610 | -.00630 | .65690 | -.01020 |
| .799 | 14.689 | 15.00600 | 15.03300 | 13.67800 | 15.03900 | .02760 | 1.36060 | -.05100 |
| GRADIENT | | 1.02384 | .98607 | .97754 | 1.01255 | -.03778 | .03500 | .00363 |

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OAI145 TABULATED FORCE DATA

PAGE 1340

AMES 118-1-11 OAI145A 01

(02F037) (22 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 5.000 BETA = 2.000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 0/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|-----------|-----------|-----------|-----------|---------|---------|---------|
| .901 | -30.645 | -30.57900 | -30.24700 | -31.52700 | -30.22800 | .33180 | 1.29960 | -.08150 |
| .902 | -20.430 | -20.38000 | -20.19000 | -21.10400 | -20.04800 | .19000 | 1.05580 | -.08150 |
| .901 | -15.340 | -15.48400 | -15.08800 | -15.73600 | -15.05000 | .39540 | .68650 | -.09170 |
| .902 | -10.180 | -10.23500 | -10.01200 | -10.47100 | -10.00000 | .22290 | .47140 | -.09170 |
| .901 | -6.160 | -6.21320 | -5.92400 | -6.44000 | -6.06060 | .28920 | .37940 | -.09170 |
| .900 | -4.117 | -4.32290 | -3.92890 | -4.19600 | -4.01840 | .39390 | .17760 | -.10190 |
| .900 | -2.079 | -2.14600 | -2.01350 | -2.11720 | -2.04090 | .13240 | .07630 | -.09170 |
| .902 | -.044 | -.09090 | -.05690 | -.01000 | -.02020 | .03400 | -.01020 | -.08150 |
| .900 | 1.912 | 1.87710 | 1.92880 | 1.91370 | 1.92930 | .05170 | .01560 | -.10190 |
| .900 | 3.938 | 3.89040 | 3.87310 | 3.95000 | 4.03680 | -.01730 | .08680 | -.09170 |
| .901 | 5.916 | 6.06560 | 5.78150 | 5.76630 | 6.05100 | -.28410 | .28470 | -.09170 |
| .901 | 9.997 | 10.16900 | 10.10400 | 9.75640 | 9.95820 | -.06550 | .20180 | -.09170 |
| .902 | 14.869 | 15.06400 | 15.01000 | 14.39500 | 15.00600 | -.05300 | .61140 | -.09170 |
| GRADIENT | | 1.01746 | .97237 | 1.01114 | .99900 | -.04507 | -.01214 | .00053 |

RUN NO. 0/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|-----------|-----------|-----------|-----------|---------|---------|---------|
| .947 | -30.302 | -31.29100 | -29.96800 | -29.98600 | -29.96400 | 1.32250 | .02240 | -.15000 |
| .949 | -19.742 | -19.95800 | -19.07400 | -19.96400 | -19.97300 | .88450 | -.00940 | -.16090 |
| .948 | -9.949 | -9.96100 | -9.96810 | -9.93770 | -9.93070 | -.00710 | .00700 | -.15000 |
| .945 | -5.950 | -5.96230 | -5.95370 | -5.93700 | -5.94600 | .00860 | -.00900 | -.15000 |
| .945 | -3.936 | -3.93240 | -3.93930 | -3.94000 | -3.93170 | -.00690 | .00830 | -.15000 |
| .944 | -1.942 | -1.94600 | -1.93030 | -1.95300 | -1.94080 | .01570 | .01220 | -.16090 |
| .944 | .023 | .01700 | .03060 | .02300 | .01980 | .01360 | -.00320 | -.17190 |
| .946 | 2.004 | 1.98430 | 1.99300 | 2.01850 | 2.02000 | .00870 | .00150 | -.30300 |
| .945 | 4.003 | 4.00260 | 3.98200 | 4.01110 | 4.01840 | -.02060 | .00730 | -.25930 |
| .946 | 6.001 | 5.99700 | 5.99780 | 5.93700 | 6.01020 | .00080 | .01320 | -.19370 |
| .943 | 10.015 | 10.01000 | 9.98120 | 10.03700 | 10.03300 | -.02860 | -.00440 | .13360 |
| .942 | 15.013 | 14.99600 | 14.96400 | 15.04000 | 15.05000 | -.03180 | .01000 | -.10890 |
| GRADIENT | | .99875 | .99701 | 1.00244 | 1.00181 | -.00174 | -.00064 | -.01818 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1341

AMES 118-1-11 0A145A 01

(D2F037) (22 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRRP = 1076.6800 IN. XO
 YMRRP = .0000 IN. YO
 ZMRRP = 375.0000 IN. ZO

PARAMETRIC DATA
 ALPHA = 5.000 BITA = 2.000
 AILRON = .000 BIFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 0/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|-----------|-----------|-----------|-----------|---------|---------|---------|
| 1.097 | -30.011 | -30.06400 | -30.04400 | -29.92100 | -30.01400 | .02040 | -.09290 | -.16090 |
| 1.103 | -19.975 | -20.02000 | -19.99800 | -19.97500 | -19.90900 | .02210 | .06620 | -.15000 |
| 1.102 | -15.000 | -15.14000 | -14.94400 | -14.98800 | -14.92600 | .19590 | .06200 | -.15000 |
| 1.101 | -9.975 | -9.98060 | -9.90160 | -10.08600 | -9.93070 | .07900 | .15570 | -.17190 |
| 1.100 | -5.995 | -6.02740 | -5.81510 | -6.14900 | -5.98920 | .21230 | .15980 | -.16090 |
| 1.100 | -3.986 | -4.16780 | -3.83530 | -4.00000 | -3.94310 | .33240 | .05690 | -.16090 |
| 1.102 | -1.984 | -1.98760 | -1.93030 | -2.03060 | -1.98870 | .05730 | .04190 | -.15000 |
| 1.100 | .015 | .00850 | .02040 | .01150 | .01980 | .01190 | .00830 | -.15000 |
| 1.100 | 2.007 | 1.96290 | 2.02510 | 2.03870 | 2.00000 | .06220 | -.03870 | -.15000 |
| 1.101 | 4.024 | 3.96180 | 3.93250 | 4.12000 | 4.08290 | -.02930 | -.03710 | -.15000 |
| 1.100 | 5.980 | 6.11460 | 5.81910 | 5.89350 | 6.09180 | -.29550 | .19830 | -.15000 |
| 1.099 | 10.071 | 10.15600 | 10.14900 | 9.99350 | 9.98610 | -.00630 | -.00740 | -.15000 |
| 1.098 | 15.007 | 14.99600 | 15.03300 | 14.96000 | 15.03900 | .03720 | .07900 | -.15000 |
| GRADIENT | | 1.00984 | .97392 | 1.01483 | 1.00142 | -.03591 | -.01342 | .00109 |

RUN NO. 0/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|-----------|-----------|-----------|-----------|---------|---------|--------|
| 1.204 | -19.956 | -19.99800 | -20.01000 | -19.92700 | -19.89800 | -.01200 | .02850 | .07270 |
| 1.202 | -14.999 | -15.14000 | -14.94400 | -14.97400 | -14.93600 | .19590 | .03740 | .09340 |
| 1.202 | -9.913 | -10.00000 | -9.89050 | -9.86140 | -9.90100 | .10970 | -.03960 | .11420 |
| 1.201 | -5.990 | -6.04600 | -5.83490 | -6.08000 | -6.00000 | .21110 | .08000 | .06230 |
| 1.201 | -3.971 | -4.15960 | -3.83530 | -3.94640 | -3.94310 | .32420 | .00340 | .04150 |
| 1.199 | -1.970 | -2.00840 | -1.93030 | -1.97040 | -1.97020 | .07810 | .00020 | .03110 |
| 1.200 | .024 | .00850 | .02040 | .04590 | .01980 | .01190 | -.02610 | .04150 |
| 1.200 | 1.968 | 1.97360 | 2.01440 | 1.89540 | 1.98590 | .04080 | .09450 | .04150 |
| 1.200 | 3.936 | 3.96180 | 3.91270 | 3.77000 | 4.10130 | -.04910 | .33130 | .05190 |
| 1.201 | 5.902 | 6.13420 | 5.82850 | 5.51360 | 6.10200 | -.30570 | .55850 | .07270 |
| 1.199 | 9.910 | 10.18200 | 10.14200 | 9.32920 | 9.98610 | -.04050 | .65690 | .04150 |
| 1.197 | 14.678 | 15.01500 | 15.03300 | 13.63400 | 15.02800 | .01800 | 1.39410 | .10380 |
| GRADIENT | | 1.02394 | .98413 | .97705 | 1.01491 | -.03980 | .03784 | .00157 |

(02F037) (22 JUL 77)

ANES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = 2.000
AILRON = .000 BDFLAP = .000
SPDRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 0/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|-----------|-----------|-----------|-----------|---------|---------|---------|
| 1.299 | -29.991 | -30.07400 | -30.07600 | -29.81200 | -30.00200 | -.00170 | -.18960 | .01040 |
| 1.299 | -19.957 | -19.99200 | -20.01000 | -19.91600 | -19.90900 | -.01800 | .00770 | .05190 |
| 1.299 | -14.993 | -15.12900 | -14.95500 | -14.97400 | -14.91600 | .17450 | .05800 | .05190 |
| 1.297 | -9.931 | -9.99040 | -9.92380 | -9.90100 | -9.91090 | .06660 | -.00990 | .05190 |
| 1.296 | -5.987 | -6.05530 | -5.82500 | -6.09000 | -5.97840 | .23030 | .11160 | .06230 |
| 1.296 | -3.973 | -4.15960 | -3.84570 | -3.96790 | -3.92030 | .31380 | .04760 | .05190 |
| 1.294 | -1.905 | -1.71730 | -1.95110 | -1.97040 | -1.98000 | -.23380 | -.00960 | .05190 |
| 1.296 | .026 | .01700 | .00000 | .04590 | .03960 | -.01700 | -.00630 | .05190 |
| 1.297 | 1.976 | 1.38430 | 2.02610 | 1.89540 | 2.00000 | .04080 | .10460 | .05190 |
| 1.296 | 3.952 | 3.97200 | 3.92260 | 3.92000 | 4.09210 | -.04940 | .27210 | .04150 |
| 1.296 | 5.896 | 6.10480 | 5.81910 | 5.57030 | 6.09180 | -.28570 | .52150 | .06230 |
| 1.295 | 9.932 | 10.18200 | 10.14900 | 9.39020 | 10.00500 | -.03280 | .61450 | .05190 |
| 1.294 | 14.709 | 15.03500 | 15.02200 | 13.74100 | 15.03900 | -.01270 | 1.29830 | .05190 |
| GRADIENT | | 1.01229 | .98872 | .98530 | 1.01367 | -.02356 | .02837 | -.00105 |

RUN NO. 0/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|-----------|-----------|-----------|-----------|---------|---------|--------|
| 1.400 | -29.994 | -30.07400 | -30.05400 | -29.83200 | -30.01400 | .01980 | -.16230 | .00000 |
| 1.405 | -19.956 | -20.00000 | -19.98600 | -19.91600 | -19.91900 | .01380 | -.00300 | .03110 |
| 1.405 | -14.994 | -15.14000 | -14.93400 | -14.95400 | -14.94700 | .20520 | .00750 | .03110 |
| 1.404 | -9.926 | -9.98060 | -9.89050 | -9.91090 | -9.92080 | .09010 | -.00990 | .03110 |
| 1.404 | -5.983 | -6.03670 | -5.83490 | -6.07000 | -5.98920 | .20180 | .08080 | .04150 |
| 1.403 | -3.971 | -4.15960 | -3.83530 | -3.95710 | -3.93170 | .32420 | .02550 | .03110 |
| 1.404 | -1.970 | -2.01880 | -1.93030 | -1.96080 | -1.97020 | .08950 | -.00940 | .04150 |
| 1.403 | .027 | .03400 | .01020 | .03450 | .02970 | -.02380 | -.00480 | .04150 |
| 1.403 | 1.971 | 1.97360 | 2.01440 | 1.90450 | 1.98990 | .04080 | .08540 | .03110 |
| 1.404 | 3.969 | 3.98220 | 3.94240 | 3.86000 | 4.09210 | -.03980 | .23210 | .04150 |
| 1.404 | 5.910 | 6.10480 | 5.81910 | 5.62380 | 6.09180 | -.28570 | .46810 | .04150 |
| 1.402 | 9.946 | 10.16900 | 10.14200 | 9.48600 | 9.98610 | -.02720 | .50010 | .03110 |
| 1.401 | 14.747 | 15.01500 | 15.04500 | 13.91000 | 15.01700 | .02950 | 1.10720 | .03110 |
| GRADIENT | | 1.02302 | .98376 | .98382 | 1.00941 | -.03925 | .02558 | .00053 |

(D2F038) (16 JUL 77)

OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

DATE 10 MAR 80

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 ELEVON = -5.000
AILRON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 785/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|----------|----------|--------|--------|---------|
| .597 | -6.072 | -4.96230 | -4.91930 | -4.93130 | -4.93080 | .04300 | .00050 | -.01040 |
| .596 | -1.992 | -4.96230 | -4.91930 | -4.93130 | -4.92000 | .04300 | .01130 | -.01860 |
| .596 | -.944 | -4.96230 | -4.91930 | -4.93130 | -4.92000 | .04300 | .01130 | -.01860 |
| .597 | .099 | -4.96230 | -4.91930 | -4.93130 | -4.92000 | .04300 | .00050 | -.02680 |
| .597 | .607 | -4.96230 | -4.91930 | -4.93130 | -4.93080 | .04300 | .01130 | -.15000 |
| .597 | 1.128 | -4.96230 | -4.91930 | -4.93130 | -4.92000 | .04300 | .01130 | -.15000 |
| .597 | 2.168 | -4.96230 | -4.91930 | -4.93130 | -4.92000 | .04300 | .01130 | -.14180 |
| .597 | 3.196 | -4.96230 | -4.91930 | -4.93130 | -4.92000 | .04300 | .01130 | -.15000 |
| .597 | 4.223 | -4.96230 | -4.91930 | -4.93130 | -4.92000 | .04300 | .01130 | -.12540 |
| .596 | 6.254 | -4.96230 | -4.91930 | -4.93130 | -4.93080 | .04300 | .00050 | -.15000 |
| GRADIENT | | -.00000 | -.00000 | -.00000 | .00016 | .00000 | .00016 | -.02301 |

RUN NO. 778/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|----------|----------|--------|---------|---------|
| .798 | -6.223 | -4.95270 | -4.94150 | -4.93130 | -4.93080 | .01120 | .00050 | -.14180 |
| .798 | -2.120 | -4.95270 | -4.93040 | -4.93130 | -4.94160 | .02230 | -.01030 | -.19370 |
| .799 | -1.070 | -4.95270 | -4.94150 | -4.93130 | -4.94160 | .01120 | -.01030 | -.21560 |
| .799 | .013 | -4.95270 | -4.94150 | -4.93130 | -4.93080 | .01120 | .00050 | -.23740 |
| .799 | .535 | -4.96230 | -4.94150 | -4.93130 | -4.93080 | .02080 | .00050 | -.23740 |
| .799 | 1.070 | -4.95270 | -4.94150 | -4.94260 | -4.93080 | .01120 | .01180 | -.17190 |
| .799 | 2.130 | -4.96230 | -4.94150 | -4.94260 | -4.93080 | .02080 | .01180 | -.15000 |
| .799 | 3.178 | -4.95270 | -4.94150 | -4.94260 | -4.93080 | .01120 | .01180 | -.10890 |
| .798 | 4.217 | -4.95270 | -4.93040 | -4.94260 | -4.93080 | .02230 | .01180 | -.13360 |
| .798 | 6.285 | -4.96230 | -4.94150 | -4.94260 | -4.93080 | .02080 | .01180 | -.15000 |
| GRADIENT | | -.00021 | .00004 | -.00237 | .00177 | .00024 | .00414 | .01705 |

RUN NO. 777/ 0 RN/L = 5.06 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|----------|----------|---------|---------|---------|
| .900 | -6.256 | -4.95270 | -4.93040 | -4.93130 | -4.94160 | .02230 | -.01030 | -.03500 |
| .902 | -2.129 | -4.95270 | -4.93040 | -4.93130 | -4.94160 | .02230 | -.01030 | -.05960 |
| .900 | -1.074 | -4.95270 | -4.93040 | -4.93130 | -4.94160 | .02230 | -.01030 | -.15000 |
| .899 | .014 | -4.95270 | -4.93040 | -4.93130 | -4.94160 | .02230 | -.01030 | -.14180 |
| .900 | .537 | -4.95270 | -4.93040 | -4.93130 | -4.94160 | .02230 | -.01030 | -.15000 |
| .900 | 1.071 | -4.95270 | -4.93040 | -4.93130 | -4.94160 | .02230 | -.01030 | -.15000 |
| .899 | 2.135 | -4.95270 | -4.93040 | -4.93130 | -4.94160 | .02230 | -.01030 | -.18280 |
| .899 | 3.188 | -4.96230 | -4.93040 | -4.93130 | -4.94160 | .03190 | -.01030 | -.14180 |
| .899 | 4.232 | -4.95270 | -4.94150 | -4.93130 | -4.94160 | .01120 | -.01030 | -.13360 |
| .896 | 6.310 | -4.96230 | -4.93040 | -4.93130 | -4.94160 | .03190 | -.01030 | -.15000 |
| GRADIENT | | -.00066 | -.00113 | -.00000 | -.00000 | -.00047 | -.00000 | -.00808 |

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OAI45 TABULATED FORCE DATA

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(D2F039) (16 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 ELEVON = -5.000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 758/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|----------|----------|----------|----------|---------|---------|---------|
| 1.401 | -6.281 | -4.97190 | -4.91930 | -4.93130 | -4.95240 | .05260 | -.02110 | -.12540 |
| 1.409 | -2.140 | -4.97190 | -4.91930 | -4.93130 | -4.95240 | .05260 | -.02110 | -.13360 |
| 1.408 | -1.073 | -4.97190 | -4.91930 | -4.93130 | -4.95240 | .05260 | -.02110 | -.13360 |
| 1.407 | .015 | -4.97190 | -4.93040 | -4.92000 | -4.95240 | .04150 | -.03240 | -.13360 |
| 1.405 | .536 | -4.97190 | -4.91930 | -4.92000 | -4.95240 | .05260 | -.03240 | -.13360 |
| 1.405 | 1.065 | -4.97190 | -4.93040 | -4.92000 | -4.95240 | .04150 | -.03240 | -.14180 |
| 1.405 | 2.137 | -4.97190 | -4.91930 | -4.92000 | -4.95240 | .05260 | -.03240 | -.14180 |
| 1.403 | 3.200 | -4.97190 | -4.93040 | -4.92000 | -4.95240 | .04150 | -.03240 | -.15000 |
| 1.403 | 4.243 | -4.97190 | -4.93040 | -4.92000 | -4.95240 | .04150 | -.03240 | -.15000 |
| 1.401 | 6.337 | -4.96230 | -4.91930 | -4.92000 | -4.95240 | .04300 | -.03240 | -.15000 |
| | GRADIENT | .00000 | -.00157 | .00184 | -.00000 | -.00157 | -.00184 | -.00252 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 ELEVON = 5.000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

AMES 118-1-11 OAI45A 01

(D2F039) (16 JUL 77)

RUN NO. 784/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|---------|---------|---------|
| .597 | -6.072 | 5.00610 | 4.98150 | 5.01950 | 5.01560 | -.02460 | -.00390 | -.15000 |
| .597 | -1.987 | 5.00610 | 4.98150 | 5.01950 | 5.00490 | -.02460 | -.01460 | -.16090 |
| .596 | -.948 | 5.00610 | 4.98150 | 5.01950 | 5.01560 | -.02460 | -.00390 | -.18280 |
| .596 | .093 | 5.00610 | 4.98150 | 5.01950 | 5.00490 | -.02460 | -.01460 | -.18280 |
| .596 | .599 | 5.00610 | 4.98150 | 5.01950 | 5.00490 | -.02460 | -.01460 | -.15000 |
| .596 | 1.118 | 5.00610 | 4.98150 | 5.01950 | 5.00490 | -.02460 | -.01460 | -.15000 |
| .596 | 2.154 | 5.00610 | 4.98150 | 5.01950 | 5.00490 | -.02460 | -.01460 | -.15000 |
| .596 | 3.182 | 5.00610 | 4.98150 | 5.01950 | 5.00490 | -.02460 | -.01460 | -.16090 |
| .596 | 4.214 | 5.00610 | 4.98150 | 5.01950 | 5.00490 | -.02460 | -.01460 | -.17190 |
| .596 | 6.249 | 5.00610 | 4.98150 | 5.01950 | 5.00490 | -.02460 | -.01460 | -.11710 |
| | GRADIENT | .00000 | .00000 | .00000 | -.00071 | -.00000 | -.00071 | .00126 |

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0A145 TABULATED FORCE DATA

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(D2F039) (16 JUL 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 ELEVON = 5.000
AILRON = .000 BDFLAP = .000
SPOBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 779/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|---------|---------|---------|
| .798 | -6.217 | 4.98670 | 4.99310 | 5.00800 | 5.02630 | .00640 | .01830 | -.02680 |
| .799 | -2.104 | 4.99640 | 4.99310 | 4.99650 | 5.03700 | -.00330 | .04050 | -.13360 |
| .798 | -1.059 | 4.99640 | 4.99310 | 5.00800 | 5.02630 | -.00330 | .01830 | -.15000 |
| .799 | .020 | 4.99640 | 4.99310 | 5.00800 | 5.02630 | -.00330 | .01830 | -.12540 |
| .799 | .538 | 4.99640 | 4.99310 | 4.99650 | 5.03700 | -.00330 | .04050 | -.13360 |
| .798 | 1.063 | 4.99640 | 4.99310 | 4.99650 | 5.02630 | -.00330 | .02980 | -.14180 |
| .798 | 2.118 | 4.99640 | 4.99310 | 5.00800 | 5.02630 | -.00330 | .01830 | -.15000 |
| .798 | 3.163 | 4.99640 | 4.99310 | 5.00800 | 5.02630 | -.00330 | .01830 | -.13360 |
| .798 | 4.203 | 4.99640 | 4.99310 | 5.00800 | 5.02630 | -.00330 | .01830 | -.13360 |
| .797 | 6.269 | 4.99640 | 4.99310 | 5.00800 | 5.02630 | -.00330 | .01830 | -.15000 |
| | GRADIENT | .00000 | .00000 | .00087 | -.00122 | .00000 | -.00208 | .00021 |

RUN NO. 776/ 0 RN/L = 5.07 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|---------|---------|---------|
| .900 | -6.234 | 5.00610 | 4.99310 | 4.99650 | 5.03700 | -.01300 | .04050 | -.05140 |
| .903 | -2.117 | 5.00610 | 4.98150 | 4.99650 | 5.03700 | -.02460 | .04050 | -.09250 |
| .900 | -1.062 | 5.00610 | 4.99310 | 4.99650 | 5.03700 | -.01300 | .04050 | -.11710 |
| .899 | .018 | 5.00610 | 4.98150 | 4.99650 | 5.03700 | -.02460 | .04050 | -.18280 |
| .900 | .538 | 5.00610 | 4.98150 | 4.99650 | 5.03700 | -.02460 | .04050 | -.19370 |
| .900 | 1.062 | 5.00610 | 4.98150 | 4.99650 | 5.03700 | -.02460 | .04050 | -.11710 |
| .899 | 2.125 | 5.00610 | 4.98150 | 4.99650 | 5.03700 | -.02460 | .04050 | -.12540 |
| .899 | 3.173 | 5.00610 | 4.98150 | 4.99650 | 5.03700 | -.02460 | .04050 | -.12540 |
| .898 | 4.216 | 5.00610 | 4.98150 | 5.00800 | 5.03700 | -.02460 | .02900 | -.14180 |
| .897 | 6.290 | 5.00610 | 4.98150 | 5.00800 | 5.02630 | -.02460 | .01830 | -.17190 |
| | GRADIENT | .00000 | -.00076 | .00118 | .00000 | -.00076 | -.00118 | -.00269 |

RUN NO. 771/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|---------|--------|---------|
| .951 | -6.237 | 4.99640 | 4.98150 | 5.00800 | 5.01560 | -.01490 | .00760 | .00610 |
| .953 | -2.116 | 4.99640 | 4.98150 | 5.00800 | 5.01560 | -.01490 | .00760 | -.03500 |
| .950 | -1.063 | 4.99640 | 4.98150 | 5.00800 | 5.01560 | -.01490 | .00760 | -.13360 |
| .951 | .018 | 4.99640 | 4.98150 | 5.00800 | 5.02630 | -.01490 | .01830 | -.14180 |
| .951 | .539 | 4.99640 | 4.98150 | 5.00800 | 5.02630 | -.01490 | .01830 | -.14180 |
| .950 | 1.060 | 4.99640 | 4.98150 | 5.00800 | 5.02630 | -.01490 | .01830 | -.15000 |
| .951 | 2.120 | 4.98670 | 4.98150 | 5.00800 | 5.02630 | -.00520 | .01830 | -.15000 |
| .950 | 3.169 | 4.98670 | 4.98150 | 5.00800 | 5.02630 | -.00520 | .01830 | -.16090 |
| .950 | 4.212 | 4.98670 | 4.95990 | 5.00800 | 5.02630 | -.01680 | .01830 | -.15000 |
| .951 | 6.293 | 4.98670 | 4.98150 | 5.00800 | 5.02630 | -.00520 | .01830 | -.15000 |
| .947 | GRADIENT | -.00201 | -.00119 | .00000 | .00176 | .00083 | .00176 | -.01358 |

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OAI15 TABULATED FORCE DATA

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(02F039) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = .000 ELEVON = 5.000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BDFLAP = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPD8RK = 25.000 RUDDER = .000
SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 767/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|---------|---------|---------|--------|---------|
| 1.200 | -6.248 | 4.98670 | 4.95830 | 4.99650 | 5.02630 | -.02840 | .02980 | -.12540 |
| 1.202 | -2.112 | 4.99640 | 4.95830 | 4.99650 | 5.02630 | -.03810 | .02980 | -.13360 |
| 1.200 | -1.062 | 4.99640 | 4.95830 | 4.99650 | 5.02630 | -.03810 | .02980 | -.14180 |
| 1.199 | .016 | 4.99640 | 4.95830 | 4.99650 | 5.02630 | -.03810 | .02980 | -.14180 |
| 1.200 | .537 | 4.99640 | 4.95830 | 4.99650 | 5.01560 | -.03810 | .01910 | -.14180 |
| 1.199 | 1.063 | 4.99640 | 4.95830 | 4.99650 | 5.01560 | -.03810 | .01910 | -.14180 |
| 1.198 | 2.123 | 4.99640 | 4.95830 | 4.99650 | 5.02630 | -.03810 | .02980 | -.14180 |
| 1.199 | 3.173 | 4.99640 | 4.95830 | 4.99650 | 5.02630 | -.03810 | .02980 | -.15000 |
| 1.198 | 4.217 | 4.99640 | 4.95830 | 4.99650 | 5.02630 | -.03810 | .02980 | -.15000 |
| 1.196 | 6.299 | 5.00610 | 4.95830 | 4.99650 | 5.02630 | -.04780 | .02980 | -.15000 |
| | GRADIENT | .00000 | .00000 | .00000 | .00013 | -.00000 | .00013 | -.00222 |

RUN NO. 764/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|
| 1.299 | -6.267 | 4.98670 | 4.98150 | 5.00800 | 5.01560 | -.00520 | .00760 | -.12540 |
| 1.301 | -2.132 | 4.98670 | 4.98150 | 5.00800 | 5.01560 | -.00520 | .00760 | -.13360 |
| 1.300 | -1.068 | 4.98670 | 4.98150 | 4.99650 | 5.01560 | -.00520 | .01910 | -.13360 |
| 1.298 | .016 | 4.98670 | 4.98150 | 4.99650 | 5.01560 | -.00520 | .01910 | -.13360 |
| 1.299 | .538 | 4.98670 | 4.98150 | 4.99650 | 5.01560 | -.00520 | .01910 | -.13360 |
| 1.297 | 1.064 | 4.99640 | 4.98150 | 5.00800 | 5.01560 | -.01490 | .00760 | -.13360 |
| 1.297 | 2.131 | 5.00610 | 4.96990 | 4.99650 | 5.01560 | -.03620 | .01910 | -.14180 |
| 1.298 | 3.187 | 4.98670 | 4.98150 | 5.00800 | 5.01560 | -.00520 | .00760 | -.14180 |
| 1.295 | 4.235 | 4.98670 | 4.96990 | 5.00800 | 5.01560 | -.01680 | .00760 | -.14180 |
| 1.292 | 6.317 | 5.00610 | 4.96990 | 5.00800 | 5.01560 | -.03620 | .00760 | -.15000 |
| | GRADIENT | .00071 | -.00160 | .00086 | .00000 | -.00231 | -.00086 | -.00169 |

RUN NO. 759/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|---------|---------|---------|--------|---------|
| 1.401 | -6.266 | 4.99640 | 4.96990 | 4.99650 | 5.01560 | -.02650 | .01910 | -.06790 |
| 1.408 | -2.130 | 4.99640 | 4.96990 | 4.99650 | 5.01560 | -.02650 | .01910 | -.09250 |
| 1.407 | -1.067 | 4.99640 | 4.96990 | 5.00800 | 5.01560 | -.02650 | .00760 | -.09250 |
| 1.405 | .018 | 4.99640 | 4.96990 | 4.99650 | 5.01560 | -.02650 | .01910 | -.09250 |
| 1.405 | .537 | 4.99640 | 4.96990 | 4.99650 | 5.01560 | -.02650 | .01910 | -.11710 |
| 1.406 | 1.061 | 4.99640 | 4.96990 | 4.99650 | 5.01560 | -.02650 | .01910 | -.12540 |
| 1.404 | 2.129 | 4.99640 | 4.96990 | 4.99650 | 5.01560 | -.02650 | .01910 | -.12540 |
| 1.402 | 3.187 | 5.00610 | 4.96990 | 4.99650 | 5.01560 | -.03620 | .01910 | -.13360 |
| 1.404 | 4.234 | 5.00610 | 4.96990 | 4.99650 | 5.01560 | -.03620 | .01910 | -.13360 |
| 1.399 | 6.323 | 5.00610 | 4.96990 | 4.99650 | 5.01560 | -.03620 | .01910 | -.14180 |
| | GRADIENT | .00166 | .00000 | -.00075 | .00000 | -.00166 | .00075 | -.00791 |

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 ELEVON = 10.000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AIRRON = .000 BOFLAP = .000
 BRFL = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPOBRK = 25.000 RUDDER = .000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 192/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|----------|----------|---------|---------|----------|--------|--------|
| .598 | -6.055 | 11.20900 | 10.10400 | 9.80030 | 9.94890 | -1.10530 | .14860 | .00000 |
| .597 | -1.956 | 11.20900 | 10.11100 | 9.80030 | 9.94890 | -1.09760 | .14860 | .00000 |
| .598 | -.932 | 11.20900 | 10.11100 | 9.80030 | 9.94890 | -1.09760 | .14860 | .00000 |
| .598 | .098 | 11.20900 | 10.11100 | 9.80030 | 9.94890 | -1.09760 | .14860 | .00000 |
| .600 | .617 | 11.20900 | 10.11100 | 9.80030 | 9.94890 | -1.09760 | .14860 | .00000 |
| .599 | 1.108 | 11.20900 | 10.11100 | 9.80030 | 9.94890 | -1.09760 | .14860 | .00000 |
| .600 | 2.186 | 11.20900 | 10.11100 | 9.79150 | 9.94890 | -1.09760 | .14860 | .00000 |
| .600 | 3.244 | 11.20900 | 10.11100 | 9.80030 | 9.94890 | -1.09760 | .14860 | .00000 |
| .600 | 4.285 | 11.20900 | 10.11100 | 9.80030 | 9.94890 | -1.09760 | .14860 | .00000 |
| .599 | 6.349 | 11.20900 | 10.11100 | 9.80030 | 9.94890 | -1.09760 | .14860 | .00000 |
| | GRADIENT | .00000 | .00000 | -.00032 | .00000 | -.00000 | .00032 | .00000 |

RUN NO. 120/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|----------|----------|---------|---------|---------|--------|---------|
| .800 | -6.090 | 10.15600 | 10.11900 | 9.66900 | 9.96750 | -.03690 | .29850 | .12460 |
| .797 | -1.995 | 10.15600 | 10.11100 | 9.67770 | 9.96750 | -.04450 | .29880 | .06230 |
| .799 | -.936 | 10.15600 | 10.11100 | 9.66030 | 9.96750 | -.04450 | .30720 | .04150 |
| .798 | .107 | 10.15600 | 10.11100 | 9.66030 | 9.96750 | -.04450 | .30720 | .03110 |
| .797 | .561 | 10.15600 | 10.11100 | 9.66900 | 9.96750 | -.04450 | .29850 | .02080 |
| .800 | 1.046 | 10.15600 | 10.11100 | 9.67770 | 9.96750 | -.04450 | .29880 | -.05100 |
| .798 | 2.122 | 10.15600 | 10.11100 | 9.67770 | 9.96750 | -.04450 | .29880 | -.07130 |
| .800 | 3.171 | 10.15600 | 10.11100 | 9.66900 | 9.96750 | -.03690 | .29850 | -.10190 |
| .797 | 4.206 | 10.15600 | 10.11100 | 9.66030 | 9.96750 | -.04450 | .30720 | -.12230 |
| .799 | 6.282 | 10.15600 | 10.11100 | 9.68640 | 9.97680 | -.04450 | .29040 | -.21400 |
| | GRADIENT | .00000 | .00057 | -.00064 | .00000 | .00054 | .00064 | -.03315 |

RUN NO. 178/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|----------|----------|---------|---------|---------|--------|---------|
| .901 | -6.101 | 10.16900 | 10.11900 | 9.80910 | 9.95820 | -.05020 | .14910 | .00000 |
| .903 | -1.911 | 10.16900 | 10.11900 | 9.80030 | 9.95820 | -.05020 | .15790 | -.03060 |
| .901 | -.867 | 10.16900 | 10.11900 | 9.80910 | 9.95820 | -.05020 | .14910 | -.05100 |
| .900 | .037 | 10.16900 | 10.11900 | 9.80910 | 9.95820 | -.05020 | .14910 | -.06110 |
| .902 | .464 | 10.16900 | 10.11900 | 9.80910 | 9.95820 | -.05020 | .14910 | -.06110 |
| .902 | .993 | 10.16900 | 10.11100 | 9.80030 | 9.95820 | -.05780 | .15790 | -.08150 |
| .900 | 2.086 | 10.16900 | 10.11900 | 9.80030 | 9.95820 | -.05020 | .15790 | -.08150 |
| .901 | 3.158 | 10.16900 | 10.11900 | 9.80030 | 9.95820 | -.05020 | .15790 | -.10190 |
| .901 | 4.200 | 10.16900 | 10.11900 | 9.80030 | 9.95820 | -.05020 | .15790 | -.12230 |
| .900 | 6.274 | 10.16900 | 10.11900 | 9.80030 | 9.95820 | -.05020 | .15790 | -.17330 |
| | GRADIENT | .00000 | .00001 | -.00103 | .00000 | .00001 | .00103 | -.01407 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

AMES 118-1-11 0A145A 01

(02F040) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = 10.000
 AILRON = .000 BOFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 131/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|----------|----------|---------|---------|---------|--------|---------|
| .951 | -6.065 | 10.18200 | 10.11100 | 9.76520 | 9.94890 | -.07110 | .18370 | .00000 |
| .950 | -1.921 | 10.18200 | 10.11100 | 9.81790 | 9.94890 | -.07110 | .13100 | .00000 |
| .951 | -.855 | 10.18200 | 10.11100 | 9.80910 | 9.94890 | -.07110 | .13980 | .00000 |
| .952 | .085 | 10.18200 | 10.11900 | 9.80910 | 9.94890 | -.06340 | .13980 | .00000 |
| .951 | .520 | 10.18200 | 10.11900 | 9.81790 | 9.95820 | -.06340 | .14030 | .00000 |
| .951 | 1.055 | 10.18200 | 10.11900 | 9.81790 | 9.95820 | -.06340 | .14910 | .00000 |
| .951 | 2.132 | 10.18200 | 10.11900 | 9.80910 | 9.95820 | -.07110 | .14960 | .00000 |
| .950 | 3.186 | 10.18200 | 10.11100 | 9.81790 | 9.96750 | -.06340 | .13980 | -.01020 |
| .950 | 4.225 | 10.18200 | 10.11900 | 9.80910 | 9.94890 | -.06340 | .14030 | -.02040 |
| .950 | 6.304 | 10.18200 | 10.11900 | 9.81790 | 9.95820 | -.06340 | .14030 | -.00183 |
| | GRADIENT | .00000 | .00075 | -.00041 | .00152 | .00072 | .00193 | |

RUN NO. 436/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|----------|----------|---------|---------|---------|---------|---------|
| 1.101 | -6.202 | 10.16900 | 10.15700 | 9.98480 | 9.99540 | -.01190 | .01060 | -.12540 |
| 1.101 | -2.095 | 10.16900 | 10.14900 | 9.98480 | 9.98610 | -.01960 | .00130 | -.11710 |
| 1.100 | -1.043 | 10.16900 | 10.14900 | 9.98480 | 9.98610 | -.01960 | .00130 | -.11710 |
| 1.101 | .011 | 10.15600 | 10.14900 | 9.98480 | 9.99540 | -.00630 | .01060 | -.12540 |
| 1.103 | .545 | 10.16900 | 10.14900 | 9.98480 | 9.98610 | -.01960 | .00130 | -.12540 |
| 1.100 | 1.078 | 10.16900 | 10.14900 | 9.98480 | 9.98610 | -.01960 | .00130 | -.13360 |
| 1.101 | 2.131 | 10.16900 | 10.14900 | 9.98480 | 9.98610 | -.01960 | .00130 | -.13360 |
| 1.101 | 3.176 | 10.16900 | 10.14900 | 9.98480 | 9.98610 | -.01960 | .00130 | -.14180 |
| 1.099 | 4.223 | 10.16900 | 10.14900 | 9.98480 | 9.98610 | -.01960 | .00130 | -.16090 |
| 1.099 | 6.318 | 10.16900 | 10.14900 | 9.98480 | 9.98610 | -.01960 | .00130 | -.18280 |
| 1.099 | GRADIENT | .00041 | .00000 | .00000 | -.00029 | -.00042 | -.00029 | -.00646 |

RUN NO. 169/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|----------|----------|---------|---------|---------|---------|---------|
| 1.200 | -6.101 | 10.19600 | 10.10400 | 9.77390 | 9.96750 | -.09200 | .19360 | -.06110 |
| 1.200 | -1.924 | 10.19600 | 10.09600 | 9.77390 | 9.95820 | -.09960 | .18430 | -.12230 |
| 1.199 | -.881 | 10.18200 | 10.09600 | 9.77390 | 9.95820 | -.08640 | .18430 | -.12230 |
| 1.199 | .033 | 10.19600 | 10.09600 | 9.78270 | 9.95820 | -.09960 | .17550 | -.11210 |
| 1.199 | .468 | 10.18200 | 10.09600 | 9.78270 | 9.96750 | -.08640 | .18480 | -.11210 |
| 1.199 | .999 | 10.19600 | 10.09600 | 9.78270 | 9.95820 | -.09960 | .17550 | -.11210 |
| 1.199 | 2.087 | 10.19600 | 10.09600 | 9.78270 | 9.96750 | -.09960 | .18480 | -.11210 |
| 1.199 | 3.151 | 10.19600 | 10.09600 | 9.78270 | 9.95820 | -.09960 | .17550 | -.12230 |
| 1.199 | 4.195 | 10.20900 | 10.09600 | 9.78270 | 9.96750 | -.11290 | .18480 | -.14270 |
| 1.201 | 6.275 | 10.20900 | 10.09600 | 9.78270 | 9.95820 | -.11290 | .17550 | -.14270 |
| 1.195 | GRADIENT | .00258 | .00000 | .00145 | .00117 | -.00254 | -.00028 | -.00238 |

AMES 118-1-11 CA145A 01

(D2F040) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = 10.000
 AILRON = .000 BOFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 141/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|----------|----------|---------|---------|---------|---------|---------|
| 1.294 | -6.122 | 10.18200 | 10.12600 | 9.74760 | 9.95820 | -.05580 | .21060 | .00000 |
| 1.296 | -1.970 | 10.18200 | 10.12600 | 9.73880 | 9.95820 | -.05580 | .21940 | .00000 |
| 1.295 | -.918 | 10.18200 | 10.11900 | 9.73880 | 9.94890 | -.06340 | .21010 | -.02040 |
| 1.294 | .144 | 10.18200 | 10.11900 | 9.73880 | 9.95820 | -.06340 | .21940 | -.03060 |
| 1.293 | .629 | 10.18200 | 10.11900 | 9.73880 | 9.95820 | -.06340 | .21940 | -.03060 |
| 1.294 | 1.187 | 10.18200 | 10.11900 | 9.73880 | 9.95820 | -.06340 | .21940 | -.03060 |
| 1.294 | 2.268 | 10.16900 | 10.12600 | 9.73880 | 9.95820 | -.04250 | .21940 | -.03060 |
| 1.294 | 3.335 | 10.16900 | 10.11900 | 9.73880 | 9.95820 | -.05020 | .21940 | -.04080 |
| 1.293 | 4.380 | 10.16900 | 10.11900 | 9.73880 | 9.94890 | -.05020 | .21010 | -.06110 |
| 1.292 | 6.462 | 10.16900 | 10.11900 | 9.73880 | 9.95820 | -.05020 | .21940 | -.08150 |
| | GRADIENT | -.00270 | -.00043 | .00000 | -.00035 | .00227 | -.00035 | -.00748 |

RUN NO. 161/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|----------|----------|---------|---------|---------|---------|--------|
| 1.400 | -6.169 | 10.18200 | 10.11900 | 9.80910 | 9.95820 | -.06340 | .14910 | .00000 |
| 1.404 | -2.012 | 10.16900 | 10.11900 | 9.80910 | 9.96750 | -.05020 | .15840 | .00000 |
| 1.404 | -.965 | 10.16900 | 10.11900 | 9.81790 | 9.96750 | -.05020 | .14960 | .00000 |
| 1.404 | .016 | 10.16900 | 10.12600 | 9.80910 | 9.96750 | -.04250 | .15840 | .00000 |
| 1.403 | .616 | 10.16900 | 10.11900 | 9.80910 | 9.96750 | -.05020 | .15840 | .00000 |
| 1.403 | 1.128 | 10.16900 | 10.11900 | 9.80910 | 9.96750 | -.05020 | .15840 | .00000 |
| 1.403 | 2.212 | 10.16900 | 10.11900 | 9.82670 | 9.95820 | -.05020 | .13150 | .00000 |
| 1.402 | 3.286 | 10.16900 | 10.11900 | 9.80910 | 9.96750 | -.05020 | .15840 | .00000 |
| 1.403 | 4.348 | 10.16900 | 10.11900 | 9.80910 | 9.96750 | -.05020 | .15840 | .00000 |
| 1.400 | 6.462 | 10.16900 | 10.11900 | 9.80910 | 9.96750 | -.05020 | .15840 | .00000 |
| | GRADIENT | .00000 | -.00023 | .00006 | -.00033 | -.00026 | -.00039 | .00000 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.8800 IN. XO ALPHA = 5.000 ELEVON = 5.000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AIRLON = .000 BDFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPOBRK = 25.000 RUDDER = .000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 191/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|---------|---------|--------|
| .598 | -6.057 | 4.94790 | 4.83050 | 4.90100 | 4.93000 | -1.1740 | .02900 | .00000 |
| .598 | -1.944 | 4.94790 | 4.83050 | 4.90100 | 4.93000 | -1.1740 | .02900 | .00000 |
| .597 | -.890 | 4.95760 | 4.83050 | 4.90100 | 4.93000 | -1.1740 | .02900 | .00000 |
| .598 | .082 | 4.94790 | 4.83050 | 4.90100 | 4.93000 | -1.1740 | .02900 | .00000 |
| .598 | .541 | 4.94790 | 4.83050 | 4.90100 | 4.92080 | -1.1740 | .01980 | .00000 |
| .598 | 1.086 | 4.94790 | 4.83050 | 4.90100 | 4.92080 | -1.1740 | .01980 | .00000 |
| .598 | 2.159 | 4.94790 | 4.81890 | 4.91090 | 4.93000 | -1.2900 | .01910 | .00000 |
| .593 | 3.228 | 4.94790 | 4.83050 | 4.91090 | 4.92080 | -1.1740 | .00990 | .00000 |
| .593 | 4.277 | 4.95760 | 4.83050 | 4.90100 | 4.93000 | -1.2710 | .02900 | .00000 |
| .593 | 6.353 | 4.95760 | 4.83050 | 4.90100 | 4.93000 | -1.2710 | .02900 | .00000 |
| | GRADIENT | .00040 | -.00042 | .00106 | -.00050 | -.00082 | -.00156 | .00000 |

RUN NO. 119/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|----------|---------|---------|
| .799 | -6.074 | 4.96730 | 4.81890 | 4.76240 | 4.93000 | -1.14840 | .16760 | .14540 |
| .798 | -1.958 | 4.96730 | 4.81890 | 4.75250 | 4.93000 | -1.14840 | .17750 | .08310 |
| .798 | -.918 | 4.96730 | 4.81890 | 4.76240 | 4.94070 | -1.14840 | .17830 | .07270 |
| .799 | .155 | 4.96730 | 4.81890 | 4.77230 | 4.94070 | -1.14840 | .16840 | .05190 |
| .798 | .647 | 4.96730 | 4.81890 | 4.76240 | 4.93000 | -1.14840 | .16760 | .05190 |
| .799 | 1.161 | 4.96730 | 4.81890 | 4.75250 | 4.93000 | -1.14840 | .17750 | .04150 |
| .799 | 2.246 | 4.96730 | 4.83050 | 4.76240 | 4.94070 | -1.3680 | .17830 | .03110 |
| .798 | 3.308 | 4.96730 | 4.83050 | 4.77230 | 4.94070 | -1.3680 | .16840 | .01040 |
| .798 | 4.352 | 4.96730 | 4.83050 | 4.76240 | 4.94070 | -1.3680 | .17830 | .00000 |
| .797 | 6.427 | 4.96730 | 4.83050 | 4.77230 | 4.94070 | -1.3680 | .16840 | -.04080 |
| | GRADIENT | .00000 | .00242 | .00135 | .00120 | .00242 | -.00014 | -.01344 |

RUN NO. 177/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|---------|--------|---------|
| .901 | -6.104 | 4.94790 | 4.83050 | 4.88120 | 4.93000 | -1.1740 | .04880 | .00000 |
| .902 | -1.921 | 4.94790 | 4.83050 | 4.88120 | 4.93000 | -1.1740 | .04880 | -.02040 |
| .900 | -.862 | 4.94790 | 4.83050 | 4.88120 | 4.93000 | -1.1740 | .04880 | -.03060 |
| .898 | .038 | 4.94790 | 4.83050 | 4.87130 | 4.93000 | -1.1740 | .05870 | -.04080 |
| .901 | .450 | 4.93820 | 4.83050 | 4.87130 | 4.93000 | -1.0770 | .05870 | -.05100 |
| .900 | .960 | 4.94790 | 4.83050 | 4.87130 | 4.93000 | -1.1740 | .05870 | -.06110 |
| .900 | 2.063 | 4.93820 | 4.83050 | 4.87130 | 4.93000 | -1.0770 | .05870 | -.07130 |
| .899 | 3.136 | 4.93820 | 4.83050 | 4.87130 | 4.93000 | -1.0770 | .05870 | -.09170 |
| .899 | 4.187 | 4.93820 | 4.83050 | 4.87130 | 4.93000 | -1.0770 | .05870 | -.12230 |
| .899 | 6.259 | 4.94790 | 4.83050 | 4.88120 | 4.93000 | -1.1740 | .04860 | -.16310 |
| | GRADIENT | -.00194 | .00000 | -.00163 | .00000 | .00194 | .00163 | -.01623 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1352

(DEF041) (16 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = 5.000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 130/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00
 MACH .951
 BETA -6.090
 ELV-LO 4.95760
 ELV-LI 4.83050
 ELV-RO 4.84160
 ELV-RI 4.92080
 DELR .07920
 DELL -1.2710
 DRHL .02080
 .950
 -1.912
 4.95760
 4.81890
 4.84160
 4.92080
 .06930
 .01040
 .952
 -.845
 4.95760
 4.81890
 4.84160
 4.92080
 .08840
 .01040
 .951
 .073
 4.95760
 4.81890
 4.84160
 4.92080
 .09900
 .00000
 .952
 .484
 4.95760
 4.81890
 4.84160
 4.92080
 .07990
 .00000
 .951
 1.080
 4.95760
 4.81890
 4.84160
 4.92080
 .09830
 .00000
 .951
 2.125
 4.95760
 4.81890
 4.84160
 4.92080
 .09900
 .00000
 .951
 3.188
 4.95760
 4.81890
 4.84160
 4.92080
 .10890
 .00000
 .951
 4.220
 4.95760
 4.81890
 4.84160
 4.92080
 .12800
 .00000
 .950
 6.302
 4.95760
 4.80730
 4.92080
 .12870
 .01020
 GRADIENT .00000
 .00730
 .00058
 .00789

RUN NO. 435/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00
 MACH 1.103
 BETA -6.233
 ELV-LO 5.00610
 ELV-LI 4.92340
 ELV-RO 4.79500
 ELV-RI 4.98350
 DELR .18850
 DELL -.08270
 DRHL -.10890
 1.100
 -2.097
 5.01580
 4.92340
 4.79500
 4.98350
 .18850
 -.09240
 1.101
 -1.045
 5.01580
 4.92340
 4.79500
 4.98350
 .18850
 -.09240
 1.101
 .016
 5.01580
 4.92340
 4.79500
 4.98350
 .18850
 -.09240
 1.101
 .534
 5.01580
 4.92340
 4.79500
 4.98350
 .18850
 -.09240
 1.101
 1.071
 5.01580
 4.92340
 4.79500
 4.98350
 .18850
 -.09240
 1.101
 2.122
 5.01580
 4.92340
 4.79500
 4.98350
 .18850
 -.09240
 1.100
 3.162
 5.01580
 4.92340
 4.79500
 4.98350
 .18850
 -.10210
 1.101
 4.206
 5.02550
 4.92340
 4.79500
 4.98350
 .18850
 -.11370
 1.101
 6.305
 5.02550
 4.91180
 4.98350
 .18850
 -.11370
 GRADIENT .00100
 .00000
 .00000
 .00000

RUN NO. 168/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00
 MACH 1.199
 BETA -6.102
 ELV-LO 4.95760
 ELV-LI 4.83050
 ELV-RO 4.87130
 ELV-RI 4.93000
 DELR .05870
 DELL -.12710
 DRHL -.05100
 1.200
 -1.924
 4.95760
 4.83050
 4.87130
 4.94070
 .06940
 -.09170
 1.199
 -.875
 4.96730
 4.83050
 4.86140
 4.94070
 .07930
 -.11210
 1.200
 .029
 4.95760
 4.83050
 4.87130
 4.94070
 .06940
 -.12230
 1.200
 .461
 4.95760
 4.83050
 4.86140
 4.94070
 .07930
 -.12230
 1.200
 .988
 4.95760
 4.83050
 4.86140
 4.94070
 .07930
 -.12230
 1.199
 2.077
 4.96730
 4.83050
 4.86140
 4.94070
 .06860
 -.12230
 1.199
 3.143
 4.96730
 4.84210
 4.94070
 .07930
 -.13250
 1.199
 4.189
 4.96730
 4.83050
 4.94070
 .06860
 -.14270
 1.199
 6.271
 4.96730
 4.83050
 4.94070
 .06940
 -.13250
 GRADIENT .00149
 .00085
 -.00133
 -.00023

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(DEF041) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = 5.000
 AILRON = .000 BOFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 140/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|---------|---------|---------|--------|---------|
| 1.294 | -6.120 | 4.95760 | 4.81890 | 4.85150 | 4.94070 | -1.3870 | .08920 | -.06110 |
| 1.296 | -2.044 | 4.95760 | 4.81890 | 4.85150 | 4.93000 | -1.3870 | .07850 | -.08150 |
| 1.295 | -1.041 | 4.95760 | 4.81890 | 4.85150 | 4.94070 | -1.3870 | .06920 | -.08150 |
| 1.294 | .015 | 4.95760 | 4.81890 | 4.85150 | 4.94070 | -1.3870 | .08920 | .00000 |
| 1.294 | .514 | 4.95760 | 4.81890 | 4.85150 | 4.94070 | -1.3870 | .08920 | -.01020 |
| 1.295 | 1.038 | 4.95760 | 4.81890 | 4.85150 | 4.94070 | -1.3870 | .08920 | -.01020 |
| 1.294 | 2.122 | 4.95760 | 4.81890 | 4.86140 | 4.94070 | -1.3870 | .07930 | -.01020 |
| 1.293 | 3.174 | 4.96730 | 4.81890 | 4.84160 | 4.94070 | -1.4840 | .09810 | -.01020 |
| 1.294 | 4.223 | 4.95760 | 4.81890 | 4.85150 | 4.94070 | -1.3870 | .08920 | -.03060 |
| 1.293 | 6.316 | 4.96730 | 4.80730 | 4.85150 | 4.94070 | -1.6000 | .08920 | -.06110 |
| | GRADIENT | .00068 | .00000 | -.00034 | .00105 | -.00068 | .00139 | .00925 |

RUN NO. 160/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|
| 1.401 | -6.164 | 4.96730 | 4.85370 | 4.90100 | 4.93000 | -1.1360 | .02900 | .38420 |
| 1.406 | -2.003 | 4.95760 | 4.84210 | 4.90100 | 4.93000 | -1.1550 | .02900 | .37380 |
| 1.405 | -.935 | 4.96730 | 4.84210 | 4.90100 | 4.93000 | -1.2520 | .02900 | .00000 |
| 1.404 | .093 | 4.96730 | 4.84210 | 4.90100 | 4.93000 | -1.2520 | .02900 | -.02040 |
| 1.403 | .568 | 4.96730 | 4.84210 | 4.90100 | 4.93000 | -1.2520 | .02900 | -.04080 |
| 1.402 | 1.117 | 4.96730 | 4.84210 | 4.90100 | 4.93000 | -1.2520 | .02900 | -.04080 |
| 1.403 | 2.207 | 4.96730 | 4.84210 | 4.90100 | 4.93000 | -1.2520 | .02900 | -.05100 |
| 1.402 | 3.290 | 4.96730 | 4.84210 | 4.91090 | 4.93000 | -1.2520 | .01910 | -.07130 |
| 1.403 | 4.352 | 4.96730 | 4.83050 | 4.92080 | 4.93000 | -1.3680 | .00920 | -.13250 |
| 1.400 | 6.459 | 4.96730 | 4.84210 | 4.92080 | 4.93000 | -1.2520 | .00920 | -.16310 |
| | GRADIENT | .00095 | -.00120 | .00273 | .00000 | -.00214 | -.00273 | -.05563 |

DATE 10 MAR 80

OAI15 TABULATED FORCE DATA

PAGE 1354

(02F042) (16 JUL 77)

AMES 118-1-11 OAI15A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = -5.000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 190/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|----------|----------|---------|---------|--------|
| .598 | -6.039 | -4.98150 | -4.97480 | -5.25200 | -6.06060 | .00670 | -8.0860 | .00000 |
| .598 | -1.923 | -4.98150 | -4.97480 | -5.25200 | -6.06060 | .00670 | -8.0860 | .00000 |
| .597 | -.880 | -4.98150 | -4.97480 | -5.25200 | -6.06060 | .00670 | -8.1870 | .00000 |
| .597 | .085 | -4.98150 | -4.97480 | -5.25200 | -6.06060 | .00670 | -8.0860 | .00000 |
| .598 | .540 | -4.98150 | -4.97480 | -5.25200 | -6.06060 | .00670 | -8.1870 | .00000 |
| .597 | 1.069 | -4.97190 | -4.97480 | -5.25200 | -6.07070 | -.00290 | -8.1870 | .00000 |
| .598 | 2.144 | -4.97190 | -4.97480 | -5.25200 | -6.07070 | -.00290 | -8.1870 | .00000 |
| .597 | 3.209 | -4.97190 | -4.97480 | -5.25200 | -6.07070 | -.00290 | -8.1870 | .00000 |
| .597 | 4.273 | -4.97190 | -4.97480 | -5.25200 | -5.21160 | -.00290 | -8.1870 | .00000 |
| .597 | 6.357 | -4.98150 | -4.96370 | -5.25200 | -5.03880 | .01780 | -2.1320 | .00000 |
| GRADIENT | | .00206 | -.00000 | -.00000 | .09053 | -.00206 | .09053 | .00000 |

RUN NO. 118/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|----------|----------|---------|--------|---------|
| .799 | -6.062 | -4.97190 | -4.95260 | -5.32900 | -4.97400 | .01930 | .35500 | .14540 |
| .798 | -1.968 | -4.96230 | -4.96370 | -5.31800 | -4.97400 | -.00140 | .34400 | .06230 |
| .799 | -.851 | -4.97190 | -4.95260 | -5.32900 | -4.96320 | .01930 | .36580 | .05190 |
| .798 | .129 | -4.97190 | -4.96370 | -5.31800 | -4.97400 | .00820 | .34400 | .03110 |
| .799 | .573 | -4.97190 | -4.96370 | -5.32900 | -4.97400 | .00820 | .35500 | .03110 |
| .799 | 1.126 | -4.97190 | -4.96370 | -5.32900 | -4.97400 | .00820 | .35500 | .02080 |
| .797 | 2.212 | -4.97190 | -4.96370 | -5.31800 | -4.96320 | .00820 | .35480 | .02080 |
| .799 | 3.290 | -4.97190 | -4.95260 | -5.31800 | -4.94160 | .01930 | .37640 | .00000 |
| .799 | 4.350 | -4.97190 | -4.96370 | -5.32900 | -4.94160 | .00820 | .38740 | .00000 |
| .799 | 6.437 | -4.97190 | -4.96370 | -5.31800 | -4.94160 | .00820 | .37640 | -.04080 |
| GRADIENT | | -.00095 | .00008 | -.00027 | .00537 | .00103 | .00564 | -.01021 |

RUN NO. 176/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|----------|----------|--------|---------|---------|
| .900 | -6.107 | -5.02950 | -4.96370 | -5.23000 | -4.96320 | .06580 | .26680 | .00000 |
| .900 | -1.911 | -5.02950 | -4.96370 | -5.24100 | -4.97400 | .06580 | .26700 | -.02040 |
| .901 | -.850 | -5.02950 | -4.96370 | -5.25200 | -4.96320 | .06580 | .28880 | -.04080 |
| .899 | .038 | -5.02950 | -4.95260 | -5.25200 | -4.96320 | .07590 | .28880 | -.05100 |
| .900 | .443 | -5.02950 | -4.95260 | -5.23000 | -4.96320 | .07590 | .26680 | -.05110 |
| .901 | .954 | -5.03910 | -4.96370 | -5.23000 | -4.96320 | .07540 | .26680 | -.06110 |
| .898 | 2.041 | -5.02950 | -4.95260 | -5.24100 | -4.96320 | .07590 | .27780 | -.08150 |
| .900 | 3.119 | -5.03910 | -4.96370 | -5.24100 | -4.96320 | .07540 | .27780 | -.09170 |
| .901 | 4.179 | -5.03910 | -4.95260 | -5.24100 | -4.97400 | .08650 | .26700 | -.13250 |
| .898 | 6.245 | -5.02950 | -4.96370 | -5.24100 | -4.97400 | .06580 | .26700 | -.17330 |
| GRADIENT | | -.00175 | .00104 | .00084 | -.00010 | .00279 | -.00094 | -.01661 |

DATE 10 MAR 80

OAI4'S TABULATED FORCE DATA

PAGE 1355

(02F042) (16 JUL 77)

AMES 118-1-11 OAI4SA 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = -5.000
 AILRON = .000 BOFLAP = .000
 SPDRK = 25.000 RUDDER = .000
 RN/L = 5.000

| RUN NO. 129/ 0 | | RN/L = 4.99 | | GRADIENT INTERVAL = -5.00/ 5.00 | | | | |
|----------------|--------|-------------|----------|---------------------------------|----------|---------|--------|---------|
| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
| .951 | -6.120 | -4.97190 | -4.94150 | -5.29600 | -4.98480 | .03040 | .31120 | .02080 |
| .951 | -1.895 | -4.96230 | -4.94150 | -5.29600 | -4.98480 | .02080 | .31120 | .00000 |
| .951 | -.826 | -4.96230 | -4.94150 | -5.30700 | -4.98480 | .02080 | .32220 | .00000 |
| .951 | .074 | -4.95270 | -4.94150 | -5.31800 | -4.98480 | .01120 | .33320 | .00000 |
| .951 | 1.037 | -4.95270 | -4.95260 | -5.32900 | -4.98480 | .00010 | .34420 | .00000 |
| .951 | 2.118 | -4.95270 | -4.95260 | -5.34000 | -4.99560 | .01120 | .34440 | .00000 |
| .952 | 3.190 | -4.95270 | -4.94150 | -5.34000 | -4.98480 | .01120 | .35520 | .00000 |
| .952 | 4.230 | -4.95270 | -4.94150 | -5.35100 | -4.98480 | .01120 | .36620 | -.01020 |
| .950 | 6.306 | -4.95270 | -4.94150 | -5.30700 | -4.98480 | .01120 | .32220 | -.02040 |
| GRADIENT | | .00158 | .00022 | -.00868 | -.00039 | -.00136 | .00829 | -.00111 |

| RUN NO. 434/ 0 | | RN/L = 5.02 | | GRADIENT INTERVAL = -5.00/ 5.00 | | | | |
|----------------|--------|-------------|----------|---------------------------------|----------|---------|--------|---------|
| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
| 1.102 | -6.203 | -4.80880 | -4.85270 | -4.90220 | -4.89240 | -.04390 | .00980 | -.12540 |
| 1.102 | -2.082 | -4.80880 | -4.85270 | -4.90220 | -4.89240 | -.04390 | .00980 | -.11710 |
| 1.101 | -1.040 | -4.79920 | -4.85270 | -4.90220 | -4.89240 | -.05350 | .00980 | -.11710 |
| 1.102 | .101 | -4.79920 | -4.85270 | -4.90220 | -4.89240 | -.05350 | .00980 | -.13360 |
| 1.101 | .694 | -4.79920 | -4.85270 | -4.90220 | -4.89240 | -.05350 | .00980 | -.13360 |
| 1.102 | 1.170 | -4.79920 | -4.85270 | -4.90220 | -4.89240 | -.05350 | .00980 | -.13360 |
| 1.101 | 2.213 | -4.78960 | -4.85270 | -4.90220 | -4.89240 | -.06310 | .00980 | -.14180 |
| 1.100 | 3.259 | -4.78960 | -4.85270 | -4.90220 | -4.89240 | -.06310 | .00980 | -.15000 |
| 1.101 | 4.303 | -4.78960 | -4.85270 | -4.91110 | -4.89240 | -.06310 | .01870 | -.17190 |
| 1.100 | 6.388 | -4.78960 | -4.85270 | -4.90220 | -4.89240 | -.06310 | .00980 | -.19370 |
| GRADIENT | | .00291 | -.00000 | -.00090 | -.00000 | -.00291 | .00090 | -.00798 |

| RUN NO. 167/ 0 | | RN/L = 5.04 | | GRADIENT INTERVAL = -5.00/ 5.00 | | | | |
|----------------|--------|-------------|----------|---------------------------------|----------|---------|---------|---------|
| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
| 1.199 | -6.118 | -4.90330 | -4.96370 | -5.23000 | -4.93480 | -.00140 | .24530 | -.08150 |
| 1.102 | -1.000 | -4.90330 | -4.96370 | -5.24100 | -4.93480 | -.00140 | .24530 | -.11210 |
| 1.199 | -.865 | -4.95270 | -4.96370 | -5.23000 | -4.93480 | -.01100 | .24520 | -.11210 |
| 1.201 | .035 | -4.95270 | -4.96370 | -5.24100 | -4.93480 | -.01100 | .25620 | -.11210 |
| 1.200 | .445 | -4.96230 | -4.96370 | -5.24100 | -4.93480 | -.00140 | .24540 | -.12230 |
| 1.200 | .967 | -4.96230 | -4.96370 | -5.24100 | -4.93480 | -.00140 | .25620 | -.12230 |
| 1.198 | 2.061 | -4.95270 | -4.96370 | -5.24100 | -4.93480 | -.01100 | .24540 | -.13250 |
| 1.199 | 3.144 | -4.95270 | -4.96370 | -5.24100 | -4.93480 | -.01100 | .25620 | -.13250 |
| 1.199 | 4.193 | -4.95270 | -4.96370 | -5.24100 | -4.93480 | -.01100 | .24540 | -.14270 |
| 1.198 | 6.275 | -4.95270 | -4.96370 | -5.21900 | -4.93480 | -.01100 | .23420 | -.14270 |
| GRADIENT | | .00116 | -.00000 | -.00071 | -.00136 | -.00116 | -.00065 | -.00537 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

(D2F042) (16 JUL 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = -5.000
 AILRON = .000 BOFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 139/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|----------|----------|----------|----------|--------|---------|---------|
| 1.293 | -6.140 | -4.9910 | -4.95260 | -5.24100 | -4.98480 | .03850 | .25620 | .07270 |
| 1.297 | -2.045 | -4.98150 | -4.95260 | -5.26300 | -4.98480 | .02890 | .27820 | .05190 |
| 1.295 | -1.014 | -4.98150 | -4.95260 | -5.26300 | -4.98480 | .02890 | .27820 | .05190 |
| 1.295 | .078 | -4.98150 | -4.95260 | -5.26300 | -4.98480 | .02890 | .27820 | .04150 |
| 1.294 | .596 | -4.98150 | -4.96370 | -5.25200 | -4.98480 | .01780 | .26720 | .03110 |
| 1.294 | 1.136 | -4.99110 | -4.95260 | -5.24100 | -4.98480 | .03850 | .25620 | .02080 |
| 1.294 | 2.149 | -5.00070 | -4.95260 | -5.21900 | -4.98480 | .04810 | .23420 | .01040 |
| 1.294 | 3.189 | -5.00070 | -4.95260 | -5.21900 | -4.98480 | .04810 | .23420 | .00000 |
| 1.294 | 4.228 | -4.99110 | -4.95260 | -5.24100 | -4.98480 | .03850 | .25620 | .00000 |
| 1.292 | 6.316 | -4.98150 | -4.95260 | -5.25200 | -4.98480 | .02890 | .26720 | -.01020 |
| | GRADIENT | -.00305 | .00016 | .00683 | -.00000 | .00321 | -.00683 | -.00994 |

RUN NO. 159/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|----------|----------|----------|----------|---------|--------|---------|
| 1.401 | -6.157 | -4.97190 | -4.97480 | -5.23000 | -4.97400 | -.00290 | .25600 | -.04080 |
| 1.406 | -2.000 | -4.97190 | -4.97480 | -5.23000 | -4.97400 | -.00290 | .25600 | -.08150 |
| 1.405 | -.937 | -4.97190 | -4.97480 | -5.23000 | -4.97400 | -.00290 | .25600 | -.11210 |
| 1.405 | .092 | -4.97190 | -4.97480 | -5.23000 | -4.97400 | -.00290 | .25600 | -.12230 |
| 1.404 | .560 | -4.97190 | -4.96370 | -5.23000 | -4.97400 | .00820 | .25600 | -.12230 |
| 1.405 | 1.110 | -4.97190 | -4.97480 | -5.23000 | -4.97400 | -.00290 | .25600 | -.04080 |
| 1.403 | 2.197 | -4.97190 | -4.97480 | -5.23000 | -4.97400 | -.00290 | .25600 | -.04080 |
| 1.402 | 3.282 | -4.97190 | -4.97480 | -5.23000 | -4.97400 | -.00290 | .25600 | -.00000 |
| 1.404 | 4.348 | -4.97190 | -4.97480 | -5.24100 | -4.97400 | -.00290 | .27800 | .02080 |
| 1.400 | 6.469 | -4.97190 | -4.97480 | -5.25200 | -4.97400 | -.00290 | .27800 | .02080 |
| | GRADIENT | .00000 | -.00018 | -.00114 | .00000 | -.00018 | .00114 | .01665 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

(02F043) (16 JUL 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 ELEVON = -10.000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BDFLAP = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDBRK = 25.000 RUDDER = .000
SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

| RUN NO. 189/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | |
|--|----------|-----------|-----------|-----------|-----------|---------|--------|--------|--|
| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL | |
| .598 | -6.025 | -10.23500 | -10.03500 | -10.53900 | -10.02200 | .20070 | .51640 | .00000 | |
| .597 | -1.915 | -10.23500 | -10.02400 | -10.53900 | -10.02200 | .21180 | .51640 | .00000 | |
| .598 | -.872 | -10.23500 | -10.02400 | -10.53900 | -10.02200 | .21180 | .50520 | .00000 | |
| .597 | -.085 | -10.23500 | -10.02400 | -10.53900 | -10.02200 | .21050 | .51640 | .00000 | |
| .598 | .533 | -10.24500 | -10.03500 | -10.56100 | -10.02200 | .21050 | .53880 | .00000 | |
| .598 | 1.063 | -10.23500 | -10.03500 | -10.53900 | -10.02200 | .20070 | .50520 | .00000 | |
| .598 | 2.139 | -10.23500 | -10.03500 | -10.53900 | -10.02200 | .20070 | .51640 | .00000 | |
| .598 | 3.205 | -10.23500 | -10.03500 | -10.55000 | -10.02200 | .20070 | .52760 | .00000 | |
| .597 | 4.272 | -10.23500 | -10.03500 | -10.55000 | -10.02200 | .20070 | .52760 | .00000 | |
| .597 | 6.356 | -10.23500 | -10.02400 | -10.55000 | -10.03400 | .21180 | .51640 | .00000 | |
| | GRADIENT | .00018 | -.00217 | -.00158 | .00078 | -.00236 | .00233 | .00000 | |

| RUN NO. 117/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | |
|--|----------|-----------|-----------|-----------|-----------|--------|---------|---------|--|
| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL | |
| .799 | -6.050 | -10.24500 | -10.01200 | -10.50600 | -10.00000 | .23270 | .60610 | .14540 | |
| .799 | -1.935 | -10.24500 | -10.01200 | -10.58400 | -10.00000 | .23270 | .58370 | .07270 | |
| .799 | -.888 | -10.24500 | -10.01200 | -10.60600 | -10.00000 | .23270 | .60610 | .06230 | |
| .799 | .106 | -10.25500 | -10.00100 | -10.62900 | -9.97030 | .25360 | .65830 | .02080 | |
| .800 | .595 | -10.24500 | -10.01200 | -10.59500 | -10.00000 | .23270 | .59490 | .01040 | |
| .799 | 1.118 | -10.25500 | -10.01200 | -10.58400 | -10.00000 | .24250 | .58370 | .01040 | |
| .798 | 2.208 | -10.25500 | -10.01200 | -10.59500 | -9.98020 | .24250 | .61470 | .00000 | |
| .798 | 3.287 | -10.25500 | -10.01200 | -10.58400 | -9.99010 | .24250 | .59360 | .00000 | |
| .799 | 4.349 | -10.25500 | -10.01200 | -10.53500 | -9.99010 | .24250 | .60480 | .00000 | |
| .799 | 6.439 | -10.25500 | -10.00100 | -10.61700 | -9.99010 | .25360 | .62720 | -.05100 | |
| | GRADIENT | -.00179 | -.00035 | .00150 | .00148 | .00140 | -.00002 | -.01519 | |

| RUN NO. 175/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | |
|--|----------|-----------|-----------|-----------|-----------|--------|--------|---------|--|
| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL | |
| .900 | -6.126 | -10.25500 | -10.02400 | -10.52800 | -10.03400 | .23140 | .49400 | .01040 | |
| .900 | -1.870 | -10.24500 | -10.02400 | -10.55000 | -10.02200 | .22160 | .52760 | -.03060 | |
| .902 | -.832 | -10.24500 | -10.02400 | -10.57200 | -10.02200 | .22160 | .55010 | -.05100 | |
| .900 | .039 | -10.24500 | -10.02400 | -10.58400 | -10.03400 | .22160 | .55010 | -.06110 | |
| .899 | .420 | -10.24500 | -10.01200 | -10.58400 | -10.03400 | .23270 | .55010 | -.06110 | |
| .899 | .944 | -10.24500 | -10.02400 | -10.58400 | -10.04500 | .23160 | .53890 | -.07130 | |
| .900 | 2.029 | -10.25500 | -10.02400 | -10.58400 | -10.04500 | .23140 | .53890 | -.08150 | |
| .900 | 3.108 | -10.25500 | -10.02400 | -10.58400 | -10.02200 | .23140 | .56130 | -.11210 | |
| .899 | 4.167 | -10.25500 | -10.02400 | -10.57200 | -10.02200 | .23140 | .55010 | -.13250 | |
| .899 | 6.235 | -10.24500 | -10.02400 | -10.57200 | -10.03400 | .22160 | .53890 | -.16310 | |
| | GRADIENT | -.00222 | -.00025 | -.00287 | -.00014 | .00195 | .00272 | -.01620 | |

0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = -10.000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

| RUN NO. | | 128/ 0 | RN/L = 4.98 | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------|------|-----------|-------------|---------------------------------|-----------|
| BETA | | ELV-LO | ELV-LI | ELV-RO | ELV-RI |
| MACH | | | | | |
| | .953 | -10.24500 | -10.03500 | -10.57200 | -10.01100 |
| | .952 | -10.24500 | -10.03500 | -10.58400 | -10.01100 |
| | .951 | -10.24500 | -10.03500 | -10.64000 | -10.01100 |
| | .951 | -10.24500 | -10.03500 | -10.64000 | -10.02200 |
| | .952 | -10.24500 | -10.04600 | -10.65100 | -10.01100 |
| | .951 | -10.24500 | -10.03500 | -10.65100 | -10.03400 |
| | .951 | -10.24500 | -10.03500 | -10.66200 | -10.01100 |
| | .950 | -10.24500 | -10.03500 | -10.64000 | -10.02200 |
| | .951 | -10.23500 | -10.03500 | -10.65100 | -10.02200 |
| | .949 | -10.23500 | -10.03500 | -10.66200 | -10.01100 |
| GRADIENT | | .00108 | .00022 | -.00746 | -.00162 |

DELX
 .56130
 .57250
 .62860
 .61740
 .63980
 .61750
 .65110
 .61740
 .62860
 .65110
 -.02040
 -.00205

DRHL
 .02080
 .01040
 .01040
 .01040
 .00000
 .00000
 .00000
 .00000
 .00000
 .00000
 -.02040
 -.00205

| RUN NO. | | 433/ 0 | RN/L = 5.03 | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------|-------|-----------|-------------|---------------------------------|----------|
| BETA | | ELV-LO | ELV-LI | ELV-RO | ELV-RI |
| MACH | | | | | |
| | 1.102 | -10.03900 | -9.89050 | -10.08600 | -9.92080 |
| | 1.102 | -10.03000 | -9.89050 | -10.08600 | -9.92080 |
| | 1.101 | -10.03000 | -9.89050 | -10.08600 | -9.92080 |
| | 1.102 | -10.02000 | -9.89050 | -10.08600 | -9.92080 |
| | 1.101 | -10.02000 | -9.89050 | -10.08600 | -9.92080 |
| | 1.101 | -10.03000 | -9.89050 | -10.08600 | -9.92080 |
| | 1.099 | -10.02000 | -9.89050 | -10.08600 | -9.92080 |
| | 1.100 | -10.02000 | -9.89050 | -10.08600 | -9.92080 |
| | 1.100 | -9.97080 | -9.90160 | -10.08600 | -9.92080 |
| | 1.098 | -9.94140 | -9.89050 | -10.08600 | -9.92080 |
| GRADIENT | | .00630 | -.00115 | -.00000 | -.00000 |

DELX
 .16560
 .16560
 .16560
 .16560
 .16560
 .16560
 .16560
 .16560
 .16560
 .16560
 .16560
 .00000

DRHL
 -.11710
 -.11710
 -.12540
 -.13360
 -.12540
 -.15000
 -.14180
 -.15000
 -.16090
 -.19370
 -.00650

| RUN NO. | | 166/ 0 | RN/L = 5.03 | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------|-------|-----------|-------------|---------------------------------|-----------|
| BETA | | ELV-LO | ELV-LI | ELV-RO | ELV-RI |
| MACH | | | | | |
| | 1.202 | -10.23500 | -10.03500 | -10.51600 | -10.02200 |
| | 1.203 | -10.23500 | -10.02400 | -10.52800 | -10.02200 |
| | 1.200 | -10.23500 | -10.03500 | -10.52800 | -10.02200 |
| | 1.201 | -10.23500 | -10.03500 | -10.52800 | -10.02200 |
| | 1.200 | -10.23500 | -10.04600 | -10.51600 | -10.03400 |
| | 1.199 | -10.23500 | -10.03500 | -10.51600 | -10.02200 |
| | 1.197 | -10.23500 | -10.03500 | -10.52800 | -10.02200 |
| | 1.199 | -10.23500 | -10.03500 | -10.52800 | -10.03400 |
| | 1.199 | -10.23500 | -10.03500 | -10.52800 | -10.02200 |
| | 1.195 | -10.23500 | -10.03500 | -10.52800 | -10.02200 |
| GRADIENT | | -.00000 | -.00089 | -.00026 | -.00065 |

DELX
 .49390
 .50520
 .50520
 .50520
 .48280
 .49390
 .50520
 .49400
 .50520
 .50520
 .50520
 -.00037

DRHL
 .00000
 -.08150
 -.10190
 -.11210
 -.12230
 -.12330
 -.11210
 -.14270
 -.13250
 -.13250
 -.00800

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1359

(02F043) (16 JUL 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 ELEVON = -10.000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BDFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPOBRK = 25.000 RUDDER = .000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA *

RUN NO. 138/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELRL | DRHL |
|-------|----------|-----------|-----------|-----------|-----------|--------|---------|---------|
| 1.298 | -6.094 | -0.07070 | -0.05690 | -0.02000 | -0.02020 | .01380 | -.00020 | .03110 |
| 1.299 | -1.948 | -10.24500 | -10.03500 | -10.50500 | -10.00000 | .21050 | .50510 | .03110 |
| 1.297 | -.887 | -10.24500 | -10.03500 | -10.50500 | -10.00000 | .21050 | .50510 | .03110 |
| 1.294 | .166 | -10.23500 | -10.03500 | -10.51600 | -10.01100 | .20070 | .50510 | .03110 |
| 1.295 | .628 | -10.24500 | -10.03500 | -10.51600 | -10.00000 | .21050 | .51630 | .03110 |
| 1.294 | 1.183 | -10.24500 | -10.03500 | -10.51600 | -10.00000 | .21050 | .51630 | .01040 |
| 1.293 | 2.277 | -10.24500 | -10.03500 | -10.51600 | -10.00000 | .21050 | .51630 | .00000 |
| 1.294 | 3.348 | -10.24500 | -10.03500 | -10.51600 | -10.00000 | .21050 | .51630 | .00000 |
| 1.294 | 4.397 | -10.24500 | -10.03500 | -10.51600 | -10.00000 | .21050 | .51630 | .00000 |
| 1.294 | 6.488 | -10.24500 | -10.03500 | -10.51600 | -10.00000 | .21050 | .51630 | .00000 |
| 1.294 | GRADIENT | -.00031 | -.00000 | -.00178 | .00034 | .00030 | .00216 | -.00610 |

RUN NO. 158/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELRL | DRHL |
|-------|----------|-----------|-----------|-----------|-----------|---------|---------|---------|
| 1.40E | -6.157 | -10.23500 | -10.03500 | -10.51600 | -10.01100 | .20070 | .50510 | -.15290 |
| 1.407 | -1.973 | -10.23500 | -10.02400 | -10.51600 | -10.01100 | .21180 | .50510 | -.21400 |
| 1.406 | -.914 | -10.23500 | -10.02400 | -10.52800 | -10.01100 | .21180 | .51640 | -.21400 |
| 1.405 | -.019 | -10.23500 | -10.02400 | -10.52800 | -10.01100 | .21180 | .51640 | .25960 |
| 1.403 | .559 | -10.23500 | -10.02400 | -10.52800 | -10.01100 | .21180 | .51640 | -.02040 |
| 1.403 | 1.100 | -10.23500 | -10.03500 | -10.52800 | -10.01100 | .20070 | .51640 | -.03060 |
| 1.404 | 2.190 | -10.23500 | -10.02400 | -10.52800 | -10.01100 | .21180 | .51640 | -.04080 |
| 1.403 | 3.275 | -10.23500 | -10.02400 | -10.52800 | -10.02200 | .21180 | .50520 | -.06110 |
| 1.402 | 4.345 | -10.23500 | -10.02400 | -10.51600 | -10.01100 | .21180 | .50510 | -.08150 |
| 1.399 | 6.469 | -10.23500 | -10.03500 | -10.51600 | -10.01100 | .20070 | .50510 | -.15290 |
| 1.399 | GRADIENT | -.00000 | -.00001 | .00009 | -.00077 | -.00001 | -.00087 | .01129 |

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02F044) (18 JUL 77)

0A145 TABULATED FORCE DATA

AMES 118-1-11 0A145A 01

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 10.000 ELEVON = -5.000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AIRLON = .000 BOFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDBRK = 25.000 RUDDER = .000
 SCALE = .0500 RN/L = 5.000

| RUN NO. 782/ 0 | | RN/L = 4.95 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|----------|---------------------------------|----------|
| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI |
| .597 | -6.029 | -4.95270 | -4.91930 | -4.93130 | -4.95240 |
| .595 | -1.970 | -4.95270 | -4.90820 | -4.93130 | -4.98480 |
| .596 | -.955 | -4.95270 | -4.90820 | -4.93130 | -4.94160 |
| .596 | .069 | -4.95270 | -4.90820 | -4.93130 | -4.95240 |
| .596 | .560 | -4.95270 | -4.90820 | -4.93130 | -4.95240 |
| .597 | 1.059 | -4.95270 | -4.90820 | -4.93130 | -4.95240 |
| .595 | 2.087 | -4.95270 | -4.90820 | -4.93130 | -4.95240 |
| .596 | 3.108 | -4.95270 | -4.90820 | -4.93130 | -4.95240 |
| .593 | 4.148 | -4.95270 | -4.90820 | -4.93130 | -4.95240 |
| .596 | 6.211 | -4.95270 | -4.90820 | -4.93130 | -4.95240 |
| | GRADIENT | -.00000 | -.00000 | -.00000 | .00258 |
| | | | | | DRHL |
| | | | | | -.05140 |
| | | | | | -.16090 |
| | | | | | -.14180 |
| | | | | | -.13360 |
| | | | | | -.14180 |
| | | | | | -.15000 |
| | | | | | -.15000 |
| | | | | | -.15000 |
| | | | | | -.17190 |
| | | | | | -.00008 |

| RUN NO. 781/ 0 | | RN/L = 5.02 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|----------|---------------------------------|----------|
| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI |
| .798 | -6.085 | -4.95270 | -4.90820 | -4.93130 | -4.94160 |
| .799 | -2.008 | -4.95270 | -4.90820 | -4.93130 | -4.94160 |
| .799 | -.981 | -4.95270 | -4.90820 | -4.93130 | -4.94160 |
| .798 | .057 | -4.95270 | -4.90820 | -4.93130 | -4.94160 |
| .798 | .558 | -4.96230 | -4.90820 | -4.94260 | -4.94160 |
| .799 | 1.062 | -4.95270 | -4.90820 | -4.93130 | -4.93080 |
| .798 | 2.110 | -4.96230 | -4.90820 | -4.94260 | -4.94160 |
| .797 | 3.142 | -4.95270 | -4.90820 | -4.93130 | -4.93080 |
| .798 | 4.193 | -4.95270 | -4.90820 | -4.94260 | -4.92000 |
| .798 | 6.273 | -4.96230 | -4.91930 | -4.93130 | -4.98320 |
| | GRADIENT | -.00020 | -.00000 | -.00143 | .00306 |
| | | | | | DRHL |
| | | | | | -.08430 |
| | | | | | -.15000 |
| | | | | | -.14180 |
| | | | | | -.15000 |
| | | | | | -.14180 |
| | | | | | -.15000 |
| | | | | | -.16090 |
| | | | | | -.14180 |
| | | | | | -.15000 |
| | | | | | -.00056 |

| RUN NO. 774/ 0 | | RN/L = 5.04 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|----------|---------------------------------|----------|
| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI |
| .898 | -6.112 | -4.95270 | -4.91930 | -4.92000 | -4.93080 |
| .901 | -2.023 | -4.95270 | -4.91930 | -4.93130 | -4.93080 |
| .900 | -.988 | -4.95270 | -4.91930 | -4.93130 | -4.93080 |
| .899 | .056 | -4.95270 | -4.91930 | -4.93130 | -4.93080 |
| .900 | .557 | -4.94310 | -4.91930 | -4.93130 | -4.93080 |
| .900 | 1.069 | -4.95270 | -4.91930 | -4.93130 | -4.93080 |
| .898 | 2.113 | -4.94310 | -4.91930 | -4.93130 | -4.93080 |
| .898 | 3.158 | -4.94310 | -4.91930 | -4.93130 | -4.93080 |
| .898 | 4.219 | -4.93350 | -4.91930 | -4.93130 | -4.93080 |
| .898 | 6.299 | -4.94310 | -4.91930 | -4.93130 | -4.93080 |
| | GRADIENT | .00289 | -.00000 | -.00000 | -.00289 |
| | | | | | DRHL |
| | | | | | -.08430 |
| | | | | | -.11710 |
| | | | | | -.12540 |
| | | | | | -.14180 |
| | | | | | -.14180 |
| | | | | | -.15000 |
| | | | | | -.13360 |
| | | | | | -.15000 |
| | | | | | -.15000 |
| | | | | | -.00050 |

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OAI45 TABULATED FORCE DATA

PAGE 1361

(D2F044) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. X0
 YMRP = .0000 IN. Y0
 ZMRP = 375.0000 IN. Z0

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = -5.000
 AILRON = .000 BOFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 773/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|----------|----------|---------|---------|---------|
| .950 | -6.125 | -4.95270 | -4.94150 | -4.93130 | -4.94160 | .01120 | -.01030 | -.04320 |
| .951 | -2.033 | -4.95270 | -4.95260 | -4.94260 | -4.94160 | .00010 | .00100 | -.18280 |
| .951 | -.996 | -4.95270 | -4.94150 | -4.94260 | -4.94160 | .01120 | .00100 | -.12540 |
| .951 | .051 | -4.95270 | -4.95260 | -4.94260 | -4.94160 | .00010 | .00100 | -.12540 |
| .950 | .556 | -4.95270 | -4.95260 | -4.94260 | -4.94160 | .00010 | .00100 | -.11710 |
| .951 | 1.067 | -4.95270 | -4.95260 | -4.94260 | -4.94160 | .00010 | .00100 | -.13360 |
| .950 | 2.120 | -4.95270 | -4.94150 | -4.94260 | -4.93080 | .01120 | .01180 | -.10890 |
| .949 | 3.166 | -4.94310 | -4.95260 | -4.94260 | -4.93080 | -.00950 | .01180 | -.13360 |
| .949 | 4.229 | -4.94310 | -4.93040 | -4.94260 | -4.93080 | .01270 | .01180 | -.15000 |
| .949 | 6.316 | -4.95270 | -4.93040 | -4.93130 | -4.93080 | .02230 | .00050 | -.17190 |
| GRADIENT | | .00168 | .00199 | -.00000 | .00227 | .00032 | .00227 | .00302 |

RUN NO. 769/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|----------|----------|---------|---------|---------|
| 1.201 | -6.130 | -4.96230 | -4.91930 | -4.94260 | -4.94160 | .04300 | .00100 | -.12540 |
| 1.203 | -2.038 | -4.96230 | -4.91930 | -4.95390 | -4.94160 | .04300 | .01230 | -.14180 |
| 1.199 | -1.003 | -4.96230 | -4.91930 | -4.94260 | -4.94160 | .04300 | .00100 | -.14180 |
| 1.198 | .046 | -4.97190 | -4.91930 | -4.94260 | -4.94160 | .05260 | .00100 | -.15000 |
| 1.201 | .552 | -4.97190 | -4.91930 | -4.94260 | -4.94160 | .05260 | .00100 | -.15000 |
| 1.200 | 1.071 | -4.97190 | -4.91930 | -4.94260 | -4.94160 | .05260 | .00100 | -.15000 |
| 1.196 | 2.128 | -4.96230 | -4.91930 | -4.94260 | -4.94160 | .04300 | .00100 | -.15000 |
| 1.199 | 3.172 | -4.96230 | -4.91930 | -4.94260 | -4.94160 | .04300 | .00100 | -.15000 |
| 1.198 | 4.233 | -4.95270 | -4.91930 | -4.93130 | -4.94160 | .03340 | -.01030 | -.15000 |
| 1.195 | 6.323 | -4.95270 | -4.91930 | -4.94260 | -4.94160 | .03340 | .00100 | -.16090 |
| GRADIENT | | .00144 | -.00000 | .00230 | -.00000 | -.00144 | -.00230 | -.00135 |

RUN NO. 762/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|----------|----------|---------|---------|---------|
| 1.294 | -6.140 | -4.96230 | -4.95260 | -4.92000 | -4.93080 | .00970 | -.01080 | -.12540 |
| 1.300 | -2.046 | -4.95270 | -4.94150 | -4.94260 | -4.93080 | .01120 | .01180 | -.13360 |
| 1.300 | -1.003 | -4.96230 | -4.95260 | -4.94260 | -4.93080 | .00970 | .01180 | -.14180 |
| 1.298 | .052 | -4.96230 | -4.94150 | -4.94260 | -4.93080 | .02080 | .01180 | -.14180 |
| 1.298 | .561 | -4.96230 | -4.95260 | -4.94260 | -4.93080 | .00970 | .01180 | -.14180 |
| 1.298 | 1.074 | -4.96230 | -4.95260 | -4.94260 | -4.93080 | .00970 | .01180 | -.14180 |
| 1.296 | 2.132 | -4.96230 | -4.95260 | -4.94260 | -4.93080 | .00970 | .01180 | -.14180 |
| 1.296 | 3.192 | -4.96230 | -4.94150 | -4.94260 | -4.93080 | .02080 | .01180 | -.14180 |
| 1.295 | 4.244 | -4.96230 | -4.94150 | -4.94260 | -4.93080 | .02080 | .01180 | -.14180 |
| 1.293 | 6.334 | -4.94310 | -4.95260 | -4.94260 | -4.93080 | -.00950 | .01180 | -.15000 |
| GRADIENT | | -.00095 | .00048 | -.00000 | -.00000 | .00143 | .00000 | -.00081 |

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OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(02F044) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

ALPHA = 10.000 ELEVON = -5.000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 761/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|----------|----------|----------|----------|---------|---------|---------|
| 1.404 | -6.152 | -4.95270 | -4.95260 | -4.94260 | -4.94160 | .00010 | .00100 | -.12540 |
| 1.403 | -2.045 | -4.95270 | -4.95260 | -4.94260 | -4.93080 | .00010 | .01180 | -.13360 |
| 1.409 | -1.005 | -4.95270 | -4.94150 | -4.94260 | -4.93080 | .01120 | .01180 | -.14180 |
| 1.409 | .049 | -4.95270 | -4.95260 | -4.94260 | -4.93080 | .00010 | .01180 | -.14180 |
| 1.407 | .556 | -4.95270 | -4.95260 | -4.94260 | -4.93080 | .00010 | .01180 | -.14180 |
| 1.407 | 1.072 | -4.95270 | -4.95260 | -4.94260 | -4.93080 | .00010 | .01180 | -.14180 |
| 1.406 | 2.139 | -4.95270 | -4.95260 | -4.93130 | -4.93080 | .00010 | .00050 | -.14180 |
| 1.404 | 3.183 | -4.95270 | -4.95260 | -4.93130 | -4.93080 | .00010 | .00050 | -.14180 |
| 1.404 | 4.256 | -4.95270 | -4.95260 | -4.94260 | -4.93080 | .00010 | .01180 | -.14180 |
| 1.402 | 6.356 | -4.95270 | -4.95260 | -4.93130 | -4.93080 | .00010 | .00050 | -.15000 |
| | GRADIENT | -.00000 | -.00073 | .00119 | .00000 | -.00073 | -.00119 | -.00081 |

AMES 118-1-11 OAI45A 01

(02F045) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

ALPHA = 10.000 ELEVON = 5.000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 783/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|---------|---------|---------|
| .597 | -6.057 | 4.99640 | 4.98150 | 5.01950 | 5.01560 | -.01490 | -.00390 | -.05140 |
| .597 | -1.995 | 4.99640 | 4.98150 | 5.01950 | 5.02630 | -.01490 | .00680 | -.17190 |
| .596 | -.974 | 4.99640 | 4.98150 | 5.01950 | 5.01560 | -.01490 | -.00390 | -.13360 |
| .596 | .057 | 4.99640 | 4.98150 | 5.01950 | 5.01560 | -.01490 | -.00390 | -.15000 |
| .596 | .555 | 4.99640 | 4.98150 | 5.01950 | 5.01560 | -.01490 | -.00390 | -.15000 |
| .595 | 1.059 | 4.99640 | 4.98150 | 5.01950 | 5.01560 | -.01490 | -.00390 | -.15000 |
| .596 | 2.094 | 4.99640 | 4.98150 | 5.01950 | 5.01560 | -.01490 | -.00390 | -.15000 |
| .597 | 3.121 | 4.99640 | 4.98150 | 5.01950 | 5.01560 | -.01490 | -.00390 | -.08430 |
| .595 | 4.164 | 4.99640 | 4.98150 | 5.01950 | 5.01560 | -.01490 | -.00390 | -.12540 |
| .597 | 6.229 | 4.99640 | 4.98150 | 5.01950 | 5.01560 | -.01490 | -.00390 | .00811 |
| | GRADIENT | .00000 | .00000 | .00000 | -.00108 | -.00000 | -.00108 | |

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0A145 TABULATED FORCE DATA

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AMES 118-1-11 0A145A 01

(02F045) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = 5.000
 AILRON = .000 BOFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 780/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|---------|---------|---------|
| .798 | -6.102 | 4.98670 | 4.98150 | 4.98650 | 5.02630 | -.00520 | .02980 | -.04320 |
| .797 | -2.024 | 4.98670 | 4.98150 | 4.98650 | 5.02630 | -.00520 | .02980 | -.12540 |
| .799 | -.992 | 4.98670 | 4.98150 | 4.98650 | 5.02630 | -.00520 | .02980 | -.15000 |
| .797 | .050 | 4.98670 | 4.98150 | 4.98650 | 5.01560 | -.00520 | .01910 | -.15000 |
| .800 | .553 | 4.98670 | 4.99310 | 4.98650 | 5.01560 | -.00540 | .01910 | -.15000 |
| .797 | 1.067 | 4.98670 | 4.98150 | 4.98650 | 5.01560 | -.00520 | .01910 | -.16090 |
| .799 | 2.111 | 4.98670 | 4.99310 | 4.98650 | 5.01560 | -.00540 | .01910 | -.10890 |
| .798 | 3.155 | 4.98670 | 4.99310 | 4.98650 | 5.01560 | -.00330 | .01910 | -.13360 |
| .798 | -4.209 | 4.99640 | 4.99310 | 4.98650 | 5.02630 | -.00330 | .02980 | -.15000 |
| .798 | 6.289 | 4.99640 | 4.99310 | 4.98650 | 5.01560 | -.00330 | .01910 | -.15000 |
| | GRADIENT | .00170 | .00228 | .00000 | -.00065 | .00057 | -.00065 | .00016 |

RUN NO. 775/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|---------|---------|---------|
| .901 | -6.132 | 5.00610 | 4.98150 | 5.00800 | 5.02630 | -.02460 | .01830 | -.20460 |
| .902 | -2.031 | 4.99640 | 4.98150 | 5.00800 | 5.02630 | -.01490 | .01830 | -.19370 |
| .900 | -.995 | 4.99640 | 4.98150 | 4.99650 | 5.02630 | -.01490 | .02980 | -.11710 |
| .899 | .050 | 4.99640 | 4.98150 | 4.99650 | 5.02630 | -.01490 | .02980 | -.14180 |
| .900 | .557 | 4.99640 | 4.98150 | 5.00800 | 5.02630 | -.01490 | .01830 | -.15000 |
| .901 | 1.071 | 4.99640 | 4.98150 | 4.99650 | 5.02630 | -.01490 | .02980 | -.15000 |
| .898 | 2.120 | 4.99640 | 4.98150 | 5.00800 | 5.02630 | -.01490 | .01830 | -.15000 |
| .898 | 3.168 | 5.00610 | 4.98150 | 4.99650 | 5.02630 | -.02460 | .02980 | -.15000 |
| .899 | 4.230 | 4.99640 | 4.96990 | 5.00800 | 5.02630 | -.02650 | .01830 | -.18280 |
| .897 | 6.312 | 5.00610 | 4.96990 | 5.00800 | 5.02630 | -.03620 | .01830 | -.21560 |
| | GRADIENT | .00068 | -.00121 | .00030 | .00000 | -.00189 | -.00030 | -.00151 |

RUN NO. 772/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|---------|--------|---------|
| .950 | -6.133 | 4.99640 | 4.96990 | 4.99650 | 5.03700 | -.02650 | .04050 | -.14180 |
| .951 | -2.044 | 4.98670 | 4.96990 | 4.99650 | 5.03700 | -.01680 | .04050 | -.16090 |
| .952 | -1.005 | 4.98670 | 4.96990 | 4.99650 | 5.03700 | -.01680 | .04050 | -.16090 |
| .949 | .046 | 4.99640 | 4.96990 | 4.99650 | 5.03700 | -.02650 | .04050 | -.15000 |
| .950 | .554 | 4.98670 | 4.96990 | 4.99650 | 5.03700 | -.01680 | .04050 | -.14180 |
| .951 | 1.070 | 4.98670 | 4.96990 | 4.99650 | 5.03700 | -.01680 | .04050 | -.15000 |
| .950 | 2.123 | 4.98670 | 4.96990 | 4.99650 | 5.03700 | -.01680 | .04050 | -.15000 |
| .949 | 3.174 | 4.99640 | 4.96990 | 4.99650 | 5.03700 | -.02650 | .05120 | -.13360 |
| .951 | 4.237 | 4.99640 | 4.96990 | 4.99650 | 5.04770 | -.02650 | .02900 | -.14180 |
| .949 | 6.323 | 4.99640 | 4.96990 | 5.00800 | 5.03700 | -.02650 | .02900 | -.00338 |
| | GRADIENT | .00138 | .00000 | .00000 | .00112 | -.00138 | .00112 | |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

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AMES 118-1-11 0A145A 01

(02F045) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

ALPHA = 10.000 ELEVON = 5.000
AILRON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

PARAMETRIC DATA

RUN NO. 768/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|---------|---------|---------|--------|---------|
| 1.198 | -6.137 | 4.96730 | 4.95830 | 4.99650 | 5.02630 | -.00900 | .02980 | -.11710 |
| 1.200 | -2.045 | 5.00610 | 4.95830 | 5.00800 | 5.02630 | -.04780 | .01830 | -.13360 |
| 1.199 | -1.008 | 5.00610 | 4.95830 | 5.00800 | 5.02630 | -.04780 | .01830 | -.14180 |
| 1.201 | .042 | 5.00610 | 4.95830 | 5.00800 | 5.02630 | -.04780 | .01830 | -.14180 |
| 1.199 | .549 | 4.99640 | 4.95830 | 5.00800 | 5.02630 | -.03810 | .01830 | -.14180 |
| 1.200 | 1.063 | 5.00610 | 4.95830 | 5.00800 | 5.02630 | -.04780 | .01830 | -.15000 |
| 1.200 | 2.122 | 5.00610 | 4.95830 | 5.00800 | 5.02630 | -.04780 | .01830 | -.14180 |
| 1.197 | 3.173 | 5.00610 | 4.95830 | 5.00800 | 5.02630 | -.04780 | .01830 | -.15000 |
| 1.197 | 4.239 | 5.00610 | 4.95830 | 5.00800 | 5.02630 | -.04780 | .01830 | -.15000 |
| 1.195 | 6.329 | 5.00610 | 4.95830 | 5.00800 | 5.02630 | -.04780 | .01830 | -.15000 |
| | GRADIENT | .00015 | .00000 | .00000 | .00000 | -.00015 | .00000 | -.00225 |

RUN NO. 763/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|
| 1.293 | -6.163 | 5.00610 | 4.98150 | 5.00800 | 5.02630 | -.02460 | .01830 | -.12540 |
| 1.295 | -2.015 | 5.00610 | 4.98150 | 5.00800 | 5.02630 | -.02460 | .01830 | -.13360 |
| 1.298 | -.939 | 5.00610 | 4.98150 | 5.00800 | 5.02630 | -.02460 | .01830 | -.13360 |
| 1.298 | .152 | 5.00610 | 4.98150 | 4.99650 | 5.02630 | -.02460 | .02980 | -.14180 |
| 1.298 | .684 | 5.00610 | 4.98150 | 4.99650 | 5.01560 | -.02460 | .01910 | -.14180 |
| 1.297 | 1.229 | 5.00610 | 4.98150 | 4.99650 | 5.02630 | -.02460 | .02980 | -.14180 |
| 1.299 | 2.297 | 5.00610 | 4.98150 | 5.00800 | 5.01560 | -.02460 | .00760 | -.14180 |
| 1.297 | 3.358 | 5.00610 | 4.98150 | 5.00800 | 5.01560 | -.02460 | .00760 | -.14180 |
| 1.296 | 4.408 | 5.00610 | 4.96990 | 5.00800 | 5.01560 | -.03620 | .00760 | -.14180 |
| 1.296 | 6.456 | 5.00610 | 4.96990 | 5.00800 | 5.01560 | -.03620 | .00760 | -.15000 |
| | GRADIENT | .00000 | -.00117 | .00049 | -.00203 | -.00117 | -.00252 | -.00133 |

RUN NO. 760/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|
| 1.398 | -6.152 | 4.99640 | 4.96990 | 4.99650 | 5.01560 | -.02650 | .01910 | -.12540 |
| 1.405 | -2.052 | 4.98670 | 4.96990 | 4.99650 | 5.01560 | -.01680 | .01910 | -.13360 |
| 1.406 | -1.011 | 4.98670 | 4.96990 | 5.00800 | 5.01560 | -.00520 | .00760 | -.13360 |
| 1.406 | .046 | 4.98670 | 4.98150 | 4.99650 | 5.01560 | -.00520 | .01910 | -.13360 |
| 1.406 | .555 | 4.98670 | 4.96990 | 5.00800 | 5.01560 | -.01680 | .00760 | -.14180 |
| 1.406 | 1.073 | 4.98670 | 4.96990 | 5.00800 | 5.01560 | -.01680 | .00760 | -.13360 |
| 1.406 | 2.132 | 4.98670 | 4.96990 | 5.00800 | 5.01560 | -.01680 | .00760 | -.14180 |
| 1.404 | 3.189 | 4.98670 | 4.95830 | 5.00800 | 5.01560 | -.02840 | .00760 | -.13360 |
| 1.405 | 4.248 | 4.98670 | 4.95830 | 5.00800 | 5.01560 | -.02840 | .00760 | -.14180 |
| 1.404 | 6.354 | 4.98670 | 4.95830 | 5.00800 | 5.01560 | -.02840 | .00760 | -.15000 |
| | GRADIENT | .00000 | -.00238 | .00150 | .00000 | -.00238 | -.00150 | -.00102 |

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0A145 TABULATED FORCE DATA

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(02F048) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = 3.000 BOFLAP = .000
SPOBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 264/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|---------|----------|----------|--------|--------|--------|
| .598 | -5.793 | 2.97440 | 3.00370 | -2.91080 | -2.84130 | .02930 | .06950 | .00000 |
| .600 | -1.898 | 2.97440 | 3.00370 | -2.91080 | -2.84130 | .02930 | .06950 | .00000 |
| .599 | 1.705 | 2.97440 | 3.00370 | -2.92060 | -2.84130 | .02930 | .07930 | .00000 |
| .598 | 4.213 | 2.97440 | 3.00370 | -2.92060 | -2.84130 | .02930 | .07930 | .00000 |
| .597 | 6.232 | 2.97440 | 3.00370 | -2.92060 | -2.84130 | .02930 | .07930 | .00000 |
| .598 | 7.275 | 2.97440 | 3.00370 | -2.92060 | -2.83260 | .02930 | .08800 | .00000 |
| .597 | 9.309 | 2.96410 | 3.00370 | -2.91080 | -2.83260 | .03960 | .07820 | .00000 |
| .597 | 11.363 | 2.97440 | 2.99270 | -2.92060 | -2.84130 | .01820 | .07930 | .00000 |
| .597 | 14.457 | 2.97440 | 2.99270 | -2.92060 | -2.84130 | .01820 | .07930 | .00000 |
| GRADIENT | | .00000 | .00000 | .00000 | .00000 | .00000 | .00193 | .00000 |

RUN NO. 250/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|---------|----------|----------|--------|---------|---------|
| .802 | -5.827 | 2.95380 | 3.01470 | -2.92060 | -2.84130 | .06090 | .07930 | -.01020 |
| .801 | -1.827 | 2.96410 | 3.01470 | -2.93040 | -2.82390 | .05060 | .10650 | -.03060 |
| .800 | 1.693 | 2.96410 | 3.01470 | -2.93040 | -2.83260 | .05060 | .09780 | -.04080 |
| .799 | 4.212 | 2.96410 | 3.01470 | -2.93040 | -2.83260 | .05060 | .09780 | .00000 |
| .800 | 6.262 | 2.95380 | 3.01470 | -2.93040 | -2.83260 | .06090 | .09780 | .00000 |
| .798 | 7.289 | 2.95380 | 3.01470 | -2.93040 | -2.83260 | .06090 | .09780 | .02080 |
| .799 | 9.315 | 2.95380 | 3.01470 | -2.92060 | -2.83260 | .06090 | .08800 | .04150 |
| .800 | 11.385 | 2.95380 | 3.01470 | -2.92060 | -2.83260 | .06090 | .08800 | .00000 |
| .800 | 14.449 | 2.95380 | 3.01470 | -2.92060 | -2.83260 | .06090 | .08800 | -.03060 |
| GRADIENT | | .00000 | .00000 | .00000 | -.00173 | .00000 | -.00173 | .00607 |

RUN NO. 197/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|---------|----------|----------|--------|---------|---------|
| .902 | -4.826 | 2.89210 | 2.94860 | -3.15360 | -2.90690 | .05650 | .24660 | -.12230 |
| .901 | .374 | 2.89210 | 2.95960 | -3.15360 | -2.90690 | .06750 | .24660 | -.12230 |
| .900 | 2.924 | 2.89210 | 2.95960 | -3.15360 | -2.91830 | .06750 | .23530 | -.15290 |
| .899 | 5.484 | 2.89210 | 2.95960 | -3.15360 | -2.91830 | .06750 | .23530 | -.15290 |
| .900 | 7.520 | 2.89210 | 2.95960 | -3.15360 | -2.91830 | .06750 | .23530 | -.15290 |
| .901 | 8.526 | 2.89210 | 2.95960 | -3.15360 | -2.90690 | .06750 | .24660 | -.12230 |
| .896 | 10.558 | 2.89210 | 2.95960 | -3.15360 | -2.91830 | .06750 | .23530 | -.08150 |
| .898 | 12.646 | 2.88180 | 2.95960 | -3.15360 | -2.91830 | .07780 | .23530 | -.08150 |
| .901 | 15.735 | 2.88180 | 2.94860 | -3.15360 | -2.91830 | .06680 | .23530 | -.07130 |
| GRADIENT | | .00000 | .00152 | -.00000 | -.00125 | .00152 | -.00124 | -.00337 |

OAI145 TABULATED FORCE DATA

DATE 10 MAR 80

(02F046) (16 JUL 77)

AMES 118-1-11 OAI145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = 3.000 BDFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 194/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|---------|----------|----------|---------|--------|---------|
| .955 | -4.735 | 2.88180 | 2.93750 | -3.16430 | -2.89550 | .05580 | .26870 | -.02040 |
| .954 | .477 | 2.89210 | 2.93750 | -3.16430 | -2.89550 | .04550 | .26870 | -.02040 |
| .954 | 3.079 | 2.89210 | 2.93750 | -3.16430 | -2.89550 | .04550 | .26870 | -.01020 |
| .953 | 5.609 | 2.89210 | 2.93750 | -3.16430 | -2.89550 | .04550 | .26870 | -.03060 |
| .954 | 7.628 | 2.89210 | 2.93750 | -3.16430 | -2.89550 | .04550 | .26870 | -.03060 |
| .956 | 8.699 | 2.88180 | 2.93750 | -3.16430 | -2.90690 | .05580 | .25740 | -.04080 |
| .950 | 10.739 | 2.88180 | 2.93750 | -3.16430 | -2.90690 | .05580 | .25740 | -.09170 |
| .950 | 12.781 | 2.88180 | 2.93750 | -3.16430 | -2.90690 | .05580 | .25740 | -.18340 |
| .953 | 15.825 | 2.88180 | 2.92650 | -3.16430 | -2.90690 | .04480 | .25740 | -.13250 |
| GRADIENT | | .00141 | .00000 | .00000 | .00000 | -.00141 | .00000 | .00112 |

RUN NO. 431/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|---------|----------|----------|--------|--------|---------|
| 1.100 | -5.065 | 2.98470 | 3.02570 | -3.02000 | -2.84130 | .04100 | .17870 | -.12540 |
| 1.101 | -.081 | 2.98470 | 3.02570 | -3.02000 | -2.84130 | .04100 | .17870 | -.13360 |
| 1.098 | 2.535 | 2.95380 | 3.02570 | -3.02000 | -2.84130 | .07190 | .17870 | -.13360 |
| 1.096 | 5.135 | 2.95380 | 3.02570 | -3.02000 | -2.84130 | .07190 | .17870 | -.12540 |
| 1.099 | 7.232 | 2.94350 | 3.02570 | -3.02000 | -2.84130 | .08220 | .17870 | -.12540 |
| 1.098 | 8.215 | 2.95380 | 3.02570 | -3.02000 | -2.84130 | .07190 | .17870 | -.12540 |
| 1.093 | 10.263 | 2.94350 | 3.02570 | -3.02000 | -2.84130 | .08220 | .17870 | -.11710 |
| 1.100 | 12.320 | 2.93320 | 3.01470 | -3.02000 | -2.84130 | .08150 | .17870 | -.12540 |
| 1.099 | 15.373 | 2.93320 | 3.01470 | -3.02000 | -2.84130 | .08150 | .17870 | -.12540 |
| GRADIENT | | -.01181 | -.00000 | .00000 | .00000 | .01181 | .00000 | .00000 |

RUN NO. 229/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|----------|----------|--------|---------|--------|
| 1.199 | -5.802 | 2.98470 | 3.03670 | -2.91080 | -2.83260 | .05200 | .07820 | .06230 |
| 1.202 | -.803 | 2.98470 | 3.02570 | -2.91080 | -2.83260 | .04100 | .07820 | .05190 |
| 1.198 | 1.758 | 2.98470 | 3.02570 | -2.92060 | -2.83260 | .04100 | .08800 | .06230 |
| 1.199 | 4.330 | 2.97440 | 3.02570 | -2.91080 | -2.83260 | .05130 | .07820 | .08310 |
| 1.196 | 6.327 | 2.97440 | 3.02570 | -2.92060 | -2.83260 | .05130 | .08800 | .08310 |
| 1.198 | 7.347 | 2.97440 | 3.02570 | -2.92060 | -2.83260 | .05130 | .08800 | .09340 |
| 1.200 | 9.451 | 2.97440 | 3.02570 | -2.92060 | -2.83260 | .05130 | .08800 | .08310 |
| 1.198 | 11.487 | 2.97440 | 3.01470 | -2.92060 | -2.83260 | .04030 | .08800 | .08310 |
| 1.198 | 14.655 | 2.97440 | 3.01470 | -2.92060 | -2.83260 | .04030 | .08800 | .10380 |
| 1.193 | GRADIENT | -.00201 | .00000 | .00000 | .00000 | .00201 | -.00000 | .00608 |

DATE 10 MAR 80

OA145 TABULATED FORCE DATA

PAGE 1367

(D2F046) (16 JUL 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

| | | | | | | | | | |
|---|-------|---|-----------|--------|------|---|-----------|-----|----|
| = | SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. | XO |
| = | LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. | YO |
| = | BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. | ZO |
| = | SCALE | = | .0500 | | | | | | |

| | | | | | |
|--------|---|--------|--------|---|------|
| BETA | = | .000 | ELEVON | = | .000 |
| AILRON | = | 3.000 | BDFLAP | = | .000 |
| SPOBRK | = | 25.000 | RUDDER | = | .000 |
| RN/L | = | 5.000 | | | |

PARAMETRIC DATA

| | | | | | |
|---------|--------|--------|------|---------------------|-------------|
| RUN NO. | 220/ 0 | RN/L = | 4.98 | GRADIENT INTERVAL = | -5.00/ 5.00 |
|---------|--------|--------|------|---------------------|-------------|

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|----------|----------|---------|---------|---------|
| 1.297 | -5.057 | 2.98470 | 3.02570 | -2.91080 | -2.83260 | .04100 | .07820 | -.03060 |
| 1.297 | .167 | 2.98470 | 3.02570 | -2.92060 | -2.83260 | .04100 | .08800 | -.02040 |
| 1.295 | 2.721 | 2.97440 | 3.01470 | -2.91080 | -2.83260 | .04030 | .07820 | -.03060 |
| 1.295 | 5.260 | 2.97440 | 3.01470 | -2.92060 | -2.83260 | .04030 | .08800 | -.02040 |
| 1.295 | 7.305 | 2.97440 | 3.01470 | -2.92060 | -2.83260 | .04030 | .08800 | -.01020 |
| 1.297 | 8.339 | 2.97440 | 3.01470 | -2.92060 | -2.83260 | .04030 | .08800 | -.02040 |
| 1.294 | 10.382 | 2.97440 | 3.01470 | -2.91080 | -2.83260 | .04030 | .07820 | -.03060 |
| 1.292 | 12.454 | 2.97440 | 3.01470 | -2.92060 | -2.83260 | .04030 | .08800 | -.03060 |
| 1.294 | 15.557 | 2.97440 | 3.00370 | -2.92060 | -2.83260 | .02930 | .08800 | -.04080 |
| | GRADIENT | -.00403 | -.00431 | .00384 | .00000 | -.00027 | -.00384 | -.00399 |

| | | | | | | |
|---------|---------|--------|------|---------------------|---------|------|
| RUN NO. | 211 / 0 | RN/L = | 5.04 | GRADIENT INTERVAL = | -5.00 / | 5.00 |
|---------|---------|--------|------|---------------------|---------|------|

[illegible]

REFERENCE DATA

SREF = 2690.0000 SQ.FT.

LREF = 474.8100 INCHES

BREF = 936.6800 INCHES

SCALE = .0500

XMRP = 1076.6800 IN. XO

YMRP = .0000 IN. YO

ZMRP = 375.0000 IN. ZO

BETA = .000

AILRON = 5.000

SPDBRK = 25.000

RN/L = 5.000

ELEVON = .000

BDFLAP = .000

RUDDER = .000

| PARAMETRIC DATA | | | | | | | | | |
|---------------------------------|--------|-------------|---------------------------------|----------|----------|----------|---------|----------|----------|
| GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | |
| RUN NO. | 0/ 0 | RN/L = 4.98 | GRADIENT INTERVAL = -5.00/ 5.00 | DEL | DELR | DRHL | DEL | DELR | DRHL |
| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | ELV-RI | DEL | DELR | DRHL |
| .599 | -5.804 | 5.02550 | 4.90020 | -4.87330 | -4.88320 | -4.88320 | -1.2530 | -0.0990 | -0.09170 |
| .601 | -1.849 | 5.02550 | 4.91180 | -4.88220 | -4.87400 | -4.87400 | -1.1370 | -0.0820 | -0.09170 |
| .599 | 1.678 | 5.02550 | 4.91180 | -4.88220 | -4.88320 | -4.88320 | -1.1370 | -0.0100 | -0.09170 |
| .598 | 4.181 | 5.02550 | 4.91180 | -4.88220 | -4.87400 | -4.87400 | -1.1370 | -0.0820 | -0.09170 |
| .597 | 6.206 | 5.02550 | 4.91180 | -4.88220 | -4.87400 | -4.87400 | -1.1370 | -0.0820 | -0.10190 |
| .598 | 7.246 | 5.01580 | 4.91180 | -4.88220 | -4.87400 | -4.87400 | -1.1370 | -0.0820 | -0.10190 |
| .597 | 9.316 | 5.02550 | 4.91180 | -4.87330 | -4.87400 | -4.87400 | -1.1370 | -0.0070 | -0.11210 |
| .598 | 11.399 | 5.02550 | 4.91180 | -4.87330 | -4.87400 | -4.87400 | -1.1370 | -0.0070 | -0.11210 |
| GRADIENT | | .00000 | .00000 | .00000 | -0.0001 | -0.0001 | -0.0000 | -0.0001 | -0.00000 |
| GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | |
| RUN NO. | 0/ 0 | RN/L = 5.01 | GRADIENT INTERVAL = -5.00/ 5.00 | DEL | DELR | DRHL | DEL | DELR | DRHL |
| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | ELV-RI | DEL | DELR | DRHL |
| .801 | -5.822 | 5.01580 | 4.91180 | -4.88220 | -4.90160 | -4.90160 | -1.0400 | -0.01940 | -0.13250 |
| .800 | -1.827 | 5.01580 | 4.91180 | -4.88220 | -4.89240 | -4.89240 | -1.0400 | -0.01020 | -0.13250 |
| .800 | 1.696 | 5.01580 | 4.90020 | -4.88220 | -4.89240 | -4.89240 | -1.1560 | -0.01020 | -0.13250 |
| .800 | 4.227 | 5.01580 | 4.90020 | -4.88220 | -4.89240 | -4.89240 | -1.1560 | -0.01020 | -0.02040 |
| .797 | 6.266 | 5.01580 | 4.91180 | -4.89110 | -4.89240 | -4.89240 | -1.0400 | -0.0130 | -0.02040 |
| .800 | 7.281 | 5.00610 | 4.91180 | -4.88220 | -4.90160 | -4.90160 | -0.9430 | -0.01940 | -0.05100 |
| .799 | 9.340 | 5.00610 | 4.90020 | -4.88220 | -4.89240 | -4.89240 | -1.0590 | -0.01020 | -0.05100 |
| .797 | 11.392 | 5.00610 | 4.91180 | -4.88220 | -4.89240 | -4.89240 | -0.9430 | -0.01020 | -0.04080 |
| .799 | 14.460 | 5.00610 | 4.90020 | -4.88220 | -4.90160 | -4.90160 | -1.0590 | -0.01940 | -0.05100 |
| GRADIENT | | .00000 | -.00229 | .00000 | .00000 | .00000 | -.00229 | .00000 | .02219 |
| GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | |
| RUN NO. | 0/ 0 | RN/L = 4.97 | GRADIENT INTERVAL = -5.00/ 5.00 | DEL | DELR | DRHL | DEL | DELR | DRHL |
| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | ELV-RI | DEL | DELR | DRHL |
| .901 | -4.753 | 4.96730 | 4.83050 | -5.24100 | -4.95240 | -4.95240 | -1.3680 | .28860 | .00000 |
| .902 | .488 | 4.97700 | 4.83050 | -5.24100 | -4.96320 | -4.96320 | -1.4650 | .27780 | .00000 |
| .901 | 3.012 | 4.97700 | 4.83050 | -5.24100 | -4.96320 | -4.96320 | -1.4650 | .27780 | .00000 |
| .898 | 5.525 | 4.97700 | 4.83050 | -5.24100 | -4.96320 | -4.96320 | -1.4650 | .27780 | .00000 |
| .901 | 7.564 | 4.96730 | 4.83050 | -5.24100 | -4.96320 | -4.96320 | -1.3680 | .27780 | .00000 |
| .898 | 8.599 | 4.96730 | 4.83050 | -5.24100 | -4.96320 | -4.96320 | -1.3680 | .27780 | .00000 |
| .901 | 10.646 | 4.96730 | 4.83050 | -5.24100 | -4.95240 | -4.95240 | -1.3680 | .28860 | .00000 |
| .900 | 12.718 | 4.96730 | 4.81890 | -5.24100 | -4.96320 | -4.96320 | -1.4840 | .27780 | .00000 |
| .900 | 15.793 | 4.96730 | 4.81890 | -5.24100 | -4.96320 | -4.96320 | -1.4840 | .27780 | .00000 |
| GRADIENT | | .00134 | .00000 | .00000 | -.00149 | -.00149 | -.00134 | -.00149 | .00000 |

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OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(D2F047) (22 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = 5.000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 0/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|----------|----------|---------|--------|--------|
| 1.202 | -5.874 | 5.02550 | 4.88860 | -4.88220 | -4.87400 | -1.3690 | .00820 | .08310 |
| 1.202 | -5.829 | 5.02550 | 4.88860 | -4.89110 | -4.87400 | -1.3690 | .01710 | .08310 |
| 1.198 | 1.730 | 5.01580 | 4.88860 | -4.90000 | -4.87400 | -1.2720 | .02600 | .09340 |
| 1.199 | 4.288 | 5.01580 | 4.87700 | -4.91100 | -4.88320 | -1.3880 | .02780 | .08310 |
| 1.193 | 6.304 | 5.01580 | 4.87700 | -4.91100 | -4.88320 | -1.3880 | .02780 | .10380 |
| 1.198 | 7.325 | 5.01580 | 4.87700 | -4.92200 | -4.87400 | -1.3880 | .04800 | .10380 |
| 1.200 | 9.397 | 5.01580 | 4.87700 | -4.90000 | -4.88320 | -1.3880 | .01680 | .10380 |
| 1.200 | 11.452 | 5.01580 | 4.87700 | -4.93300 | -4.88320 | -1.3880 | .04980 | .08310 |
| 1.198 | 14.608 | 5.01580 | 4.86540 | -4.92200 | -4.88320 | -1.5040 | .03880 | .08310 |
| | GRADIENT | -0.0190 | -0.0227 | -0.0389 | -0.0180 | -0.0037 | .00209 | .00000 |

RUN NO. 0/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|--------|----------|----------|---------|----------|----------|----------|--------|----------|
| 1.2316 | -5.885 | 5.01580 | 4.91180 | -4.91100 | -4.88320 | -1.10400 | .02780 | -0.04080 |
| 1.297 | -8.27 | 5.00610 | 4.90020 | -4.91100 | -4.88320 | -1.10590 | .02780 | -0.04080 |
| 1.293 | 1.701 | 5.00610 | 4.90020 | -4.92200 | -4.88320 | -1.0590 | .03880 | -0.04080 |
| 1.293 | 4.253 | 5.00610 | 4.90020 | -4.92200 | -4.88320 | -1.0590 | .03880 | -0.04080 |
| 1.298 | 6.279 | 5.00610 | 4.90020 | -4.92200 | -4.89240 | -1.0590 | .02960 | -0.05100 |
| 1.296 | 7.304 | 5.00610 | 4.90020 | -4.92200 | -4.89240 | -1.0590 | .02960 | -0.05100 |
| 1.295 | 9.359 | 5.00610 | 4.90020 | -4.92200 | -4.89240 | -1.0590 | .02960 | -0.05100 |
| 1.295 | 11.479 | 5.00610 | 4.88860 | -4.93300 | -4.89240 | -1.1750 | .04060 | -0.04080 |
| 1.296 | 14.576 | 5.00610 | 4.88860 | -4.92200 | -4.89240 | -1.1750 | .02960 | -0.04080 |
| | GRADIENT | -0.00000 | .00000 | -0.00216 | .00000 | .00000 | .00216 | .00000 |

RUN NO. 0/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|--------|---------|---------|----------|----------|----------|---------|--------|
| 1.404 | -5.157 | 5.00610 | 4.90020 | -4.89110 | -4.88320 | -1.10590 | .00790 | .08310 |
| 1.404 | -8.003 | 4.99640 | 4.88860 | -4.89110 | -4.88320 | -1.0780 | .00790 | .07270 |
| 1.400 | 2.564 | 4.99640 | 4.90020 | -4.89110 | -4.89240 | -0.9620 | .00130 | .07270 |
| 1.398 | 5.138 | 4.99640 | 4.88860 | -4.91100 | -4.89240 | -1.10780 | .01860 | .08310 |
| 1.401 | 7.268 | 4.99640 | 4.88860 | -4.90000 | -4.89240 | -1.0780 | .00760 | .09340 |
| 1.401 | 8.304 | 4.99640 | 4.88860 | -4.90000 | -4.89240 | -1.0780 | .00760 | .09340 |
| 1.398 | 10.351 | 4.99640 | 4.88860 | -4.89110 | -4.90160 | -1.10780 | .01050 | .09340 |
| 1.398 | 12.465 | 4.99640 | 4.88860 | -4.90000 | -4.90160 | -1.10780 | .00160 | .08310 |
| 1.399 | | .00000 | .00452 | .00000 | -0.0358 | .00452 | -0.0358 | .00000 |

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OAI45 TABULATED FORCE DATA

PAGE 1370

AMES 118-1-11 OAI45A 01(-TO+)

(025045) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 5.000
ELEVON = .000
SPDRK = 25.000
RN/L = 5.000
BETA = .000
BDFLAP = .000
RUDDER = .000

RUN NO. 258/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|----------|----------|---------|---------|---------|
| .599 | -4.829 | -4.80880 | -4.85270 | 4.68320 | 4.97280 | -0.4390 | .28960 | -1.4270 |
| .599 | -3.969 | -4.16780 | -3.84570 | 3.79000 | 4.07370 | .32200 | .28370 | -1.5290 |
| .599 | -2.938 | -3.04760 | -2.87000 | 2.79540 | 3.04000 | .17760 | .24460 | -1.4270 |
| .599 | -1.944 | -1.99800 | -1.93030 | 1.86780 | 1.97980 | .06770 | .11200 | -1.4270 |
| .599 | -.999 | -.95960 | -.90060 | 1.04510 | 1.00000 | -.03100 | -.04510 | -1.5290 |
| .599 | -.015 | .00000 | .00000 | .01150 | .04950 | .00000 | .03800 | -1.6310 |
| .598 | .970 | .94110 | .98920 | -.96000 | -.98990 | .04810 | -.02990 | -1.6310 |
| .600 | 1.980 | 1.98430 | 2.00370 | -1.95120 | -1.98000 | .01940 | -.02880 | -1.7330 |
| .599 | 2.938 | 2.97440 | 3.02570 | -2.92060 | -2.83260 | .05130 | .08800 | -1.6310 |
| .599 | 3.944 | 3.96180 | 3.91270 | -3.94640 | -3.95450 | -.04910 | -.00800 | -1.7330 |
| .599 | 4.915 | 5.00610 | 4.88860 | -4.87330 | -4.89240 | -.11750 | -.01910 | -1.6310 |
| GRADIENT | | 1.01591 | .99484 | -.97867 | -1.01059 | -.02106 | -.03192 | -.00293 |

RUN NO. 257/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|----------|----------|---------|---------|---------|
| .800 | -4.822 | -4.79920 | -4.86380 | 4.65350 | 4.97280 | -.06460 | .31930 | .06230 |
| .801 | -3.977 | -4.15960 | -3.84570 | 3.80000 | 4.10130 | .31380 | .30130 | .10380 |
| .801 | -2.948 | -3.05710 | -2.89000 | 2.79540 | 3.05000 | .16710 | .25460 | .07270 |
| .800 | -1.951 | -1.99800 | -1.95110 | 1.87700 | 1.97980 | .04690 | .10280 | .00000 |
| .800 | -.993 | -.95960 | -.97920 | 1.03370 | 1.00000 | -.01960 | -.03370 | .04150 |
| .801 | -.006 | .01700 | .01020 | .02300 | .02970 | -.00680 | .00670 | .09340 |
| .801 | .972 | .94110 | .98920 | -.97000 | -.98990 | .04810 | -.01990 | .01040 |
| .801 | 1.980 | 1.96290 | 2.02510 | -1.95120 | -1.98000 | .06220 | -.02880 | -.02040 |
| .801 | 2.934 | 2.96410 | 3.02570 | -2.92060 | -2.82390 | .06160 | .09670 | .00000 |
| .800 | 3.952 | 3.96180 | 3.92260 | -3.96790 | -3.95450 | -.03950 | .01340 | -.02040 |
| .800 | 4.928 | 5.03320 | 4.90020 | -4.88220 | -4.89240 | -.13500 | -.01020 | -.02080 |
| GRADIENT | | 1.01503 | .99639 | -.97799 | -1.01098 | -.01863 | -.03259 | -.00925 |

AMES 118-1-11 OAI45A 01(-TO+)

(02F048) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 BOFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPOBRK = 25.000 RUDDER = .000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 204/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|----------|----------|----------|----------|---------|---------|---------|
| .903 | -4.927 | -4.98150 | -4.95260 | 4.85150 | 4.92080 | .02890 | .06930 | .01040 |
| .901 | -4.053 | -4.30650 | -3.93930 | 3.93000 | 4.03680 | .36720 | .10680 | .01040 |
| .902 | -3.017 | -3.19030 | -2.96000 | 2.91630 | 3.00000 | .23030 | .08370 | .00000 |
| .903 | -2.008 | -2.15560 | -2.02390 | 1.91370 | 1.93940 | .13160 | .02570 | .00000 |
| .901 | -1.036 | -1.12480 | -1.04750 | 1.02220 | .95050 | .07720 | -.07170 | .00000 |
| .903 | -.027 | -.08080 | -.04550 | -.01000 | -.01010 | .03530 | -.00010 | .00000 |
| .903 | .983 | .85910 | .91780 | -1.08650 | -1.06860 | .05870 | .01790 | .00000 |
| .903 | 1.994 | 1.86640 | 1.95020 | -2.11720 | -2.04090 | .08380 | .07630 | .00000 |
| .902 | 2.981 | 2.89210 | 2.94860 | -3.15360 | -2.92970 | .05650 | .22390 | .00000 |
| .903 | 3.994 | 3.88020 | 3.86320 | -4.20500 | -4.02760 | -.01700 | .17740 | .00000 |
| .902 | 5.009 | 4.96730 | 4.83050 | -5.27400 | -4.96320 | -.13680 | .31080 | .00000 |
| GRADIENT | 1.00595 | .98393 | .98393 | -1.01057 | -.99955 | -.02202 | .01102 | -.00101 |

RUN NO. 195/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|----------|----------|----------|----------|---------|---------|---------|
| .955 | -4.945 | -4.98150 | -4.98590 | 4.88120 | 4.93000 | -.00440 | .04880 | -.08150 |
| .955 | -4.058 | -4.30650 | -3.92890 | 3.95000 | 4.04600 | .37760 | .09600 | -.08150 |
| .955 | -3.005 | -3.19980 | -2.95000 | 2.88840 | 2.98000 | .24980 | .09160 | -.09170 |
| .956 | -1.999 | -2.13640 | -2.03430 | 1.90450 | 1.91920 | .10200 | .01460 | -.08150 |
| .955 | -1.034 | -1.11440 | -1.04750 | 1.03370 | .94060 | .06680 | -.09310 | -.08150 |
| .954 | -.035 | -.06060 | -.07970 | .00000 | .00000 | -.01910 | .00000 | -.09170 |
| .954 | .966 | .84150 | .89740 | -1.07690 | -1.04900 | .05590 | .02790 | -.09170 |
| .952 | 1.996 | 1.87710 | 1.93950 | -2.11720 | -2.04960 | .06240 | .06760 | -.10190 |
| .953 | 2.975 | 2.90240 | 2.93750 | -3.14290 | -2.91830 | .03520 | .22450 | -.09170 |
| .954 | 3.994 | 3.88020 | 3.86320 | -4.20500 | -4.02760 | -.01700 | .17740 | -.10190 |
| .952 | 5.007 | 4.95760 | 4.85370 | -5.24100 | -4.97400 | -.10390 | .26700 | -.09170 |
| GRADIENT | 1.00627 | .98372 | .98372 | -1.01132 | -.99869 | -.02254 | .01263 | -.00211 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1372

AMES 118-1-11 0A145A 01(-TO+)

(02F048) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

ALPHA = 5.000 BETA = .000
ELEVON = .000 BOFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

PARAMETRIC DATA

RUN NO. 439/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1.101 | -4.79920 | -4.79920 | -4.86380 | 4.79500 | 4.97280 | -0.06460 | 0.17780 | -0.13360 |
| 1.101 | -4.058 | -4.16780 | -3.82490 | 4.08040 | 4.09210 | 0.34280 | 0.01170 | -0.14180 |
| 1.101 | -3.002 | -3.05710 | -2.86000 | 3.05210 | 3.04000 | 0.19710 | -0.01210 | -0.14180 |
| 1.101 | -1.992 | -2.00840 | -1.93030 | 2.03870 | 1.98990 | 0.07810 | -0.04880 | -0.14180 |
| 1.101 | -1.007 | -0.96970 | -0.96780 | 1.09250 | 1.00000 | 0.00190 | -0.09250 | -0.14180 |
| 1.101 | -0.001 | -0.01700 | -0.02040 | 0.02300 | 0.01980 | 0.00340 | -0.00320 | -0.14180 |
| 1.101 | .997 | .95930 | .99940 | -1.04860 | -0.97980 | 0.04010 | 0.06880 | -0.13360 |
| 1.101 | 1.994 | 1.96290 | 2.00370 | -2.02040 | -1.98870 | 0.04080 | 0.03170 | -0.14180 |
| 1.101 | 2.970 | 2.98470 | 3.02570 | -3.03000 | -2.84130 | 0.04100 | 0.18870 | -0.14180 |
| 1.101 | 3.957 | 3.96180 | 3.92260 | -3.99000 | -3.95450 | -0.03920 | 0.03550 | -0.14180 |
| 1.101 | 4.937 | 5.03520 | 4.90020 | -4.93130 | -4.88320 | -0.13500 | 0.04810 | -0.14180 |
| 1.101 | GRADIENT | 1.00771 | .98545 | -1.00522 | -1.00162 | -0.02225 | 0.00360 | -0.00029 |

RUN NO. 237/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|----------|----------|----------|----------|----------|----------|---------|
| 1.200 | -4.820 | -4.79920 | -4.86380 | 4.64360 | 4.97280 | -0.06460 | 0.32920 | 0.05190 |
| 1.201 | -3.972 | -4.16780 | -3.85610 | 3.78000 | 4.08290 | 0.31160 | 0.0290 | 0.06230 |
| 1.202 | -2.938 | -3.04760 | -2.87000 | 2.79540 | 3.04000 | 0.17760 | 0.24460 | 0.06230 |
| 1.201 | -1.954 | -2.00840 | -1.93030 | 1.89540 | 1.97980 | 0.07810 | 0.08440 | 0.08310 |
| 1.200 | -0.993 | -0.95960 | -0.95640 | 1.05660 | 1.00000 | 0.00320 | -0.05660 | 0.09340 |
| 1.201 | -0.003 | 0.00000 | 0.02040 | 0.02300 | 0.00990 | 0.02040 | -0.01310 | 0.09340 |
| 1.201 | .967 | .95020 | .97900 | -0.97000 | -0.96970 | 0.02880 | 0.00030 | 0.10380 |
| 1.200 | 1.980 | 1.98430 | 2.01440 | -1.95120 | -1.97020 | 0.03010 | -0.01900 | 0.09340 |
| 1.201 | 2.944 | 2.99500 | 3.02570 | -2.93040 | -2.82390 | 0.03070 | 0.10650 | 0.08310 |
| 1.201 | 3.946 | 3.96180 | 3.92260 | -3.95710 | -3.94310 | -0.03920 | 0.01410 | 0.09340 |
| 1.201 | 4.921 | 5.00610 | 4.91180 | -4.88220 | -4.88320 | -0.09430 | -0.00100 | 0.09340 |
| 1.201 | GRADIENT | 1.01608 | .99671 | -0.97802 | -1.00921 | -0.01937 | -0.03118 | 0.00393 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1373

AMES 118-1-11 OAI45A 01(-TO+)

(D2F048) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

ALPHA = 5.000 BETA = .000
 ELEVON = .000 BOFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 227/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|----------|----------|----------|----------|---------|---------|---------|
| 1.298 | -4.830 | -4.78000 | -4.86380 | 4.69310 | 4.98350 | -0.8380 | 0.2940 | 0.02080 |
| 1.298 | -3.979 | -4.15960 | -3.84570 | 3.82000 | 4.09210 | 0.31380 | 0.27210 | 0.02080 |
| 1.297 | -2.948 | -3.06660 | -2.86000 | 2.81400 | 3.05000 | 0.20660 | 0.23600 | 0.02080 |
| 1.297 | -1.961 | -2.01880 | -1.91990 | 1.90450 | 2.00000 | 0.09890 | 0.09550 | 0.02080 |
| 1.297 | -.993 | -.96970 | -.96780 | 1.03370 | 1.00000 | 0.0190 | 0.03370 | 0.02080 |
| 1.297 | .004 | .02550 | .00000 | .00000 | .00990 | 0.02550 | 0.00990 | 0.05190 |
| 1.296 | .967 | .95930 | .95860 | -.96000 | -.98990 | 0.0070 | 0.02990 | 0.05190 |
| 1.296 | 1.977 | 1.96290 | 2.00370 | -1.96080 | -1.98000 | 0.04080 | 0.01920 | 0.04150 |
| 1.296 | 2.938 | 2.96410 | 3.02570 | -2.93040 | -2.83260 | 0.06160 | 0.09780 | 0.01040 |
| 1.296 | 3.951 | 3.97200 | 3.92260 | -3.96790 | -3.94310 | 0.04940 | 0.02480 | 0.03110 |
| 1.296 | 4.921 | 5.00610 | 4.91180 | -4.88220 | -4.88320 | 0.09430 | 0.00100 | 0.04150 |
| GRADIENT | 1.01377 | .99443 | .99443 | -.98163 | -1.01017 | 0.01933 | 0.02854 | 0.00172 |

RUN NO. 218/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|----------|----------|----------|----------|---------|---------|---------|
| 1.404 | -4.835 | -4.78960 | -4.86380 | 4.71290 | 4.97280 | -0.7420 | 0.25990 | 0.01040 |
| 1.404 | -3.968 | -4.15960 | -3.84570 | 3.81000 | 4.05520 | 0.31380 | 0.24520 | 0.01040 |
| 1.403 | -2.948 | -3.05710 | -2.88000 | 2.81400 | 3.04000 | 0.17110 | 0.22600 | 0.00000 |
| 1.403 | -1.963 | -2.00840 | -1.95110 | 1.91370 | 1.97980 | 0.05730 | 0.06610 | 0.00000 |
| 1.403 | -.996 | -.96970 | -.96780 | .95660 | .99010 | 0.0190 | 0.06650 | 0.00000 |
| 1.404 | -.008 | .01700 | .02040 | .05740 | .00990 | 0.00340 | 0.04750 | 0.00000 |
| 1.403 | .972 | .95930 | .97900 | -.98000 | -.96970 | 0.01970 | 0.01030 | 0.00000 |
| 1.403 | 1.982 | 1.97360 | 2.01440 | -1.95120 | -1.98870 | 0.04080 | 0.03750 | 0.00000 |
| 1.403 | 2.935 | 2.98470 | 2.99270 | -2.91080 | -2.85000 | 0.00790 | 0.06080 | 0.00000 |
| 1.403 | 3.959 | 3.97200 | 3.92260 | -4.00000 | -3.94310 | 0.04940 | 0.05690 | 0.00000 |
| 1.404 | 4.909 | 5.00610 | 4.90020 | -4.87330 | -4.85560 | 0.10590 | 0.01770 | 0.00000 |
| GRADIENT | 1.01486 | .99488 | .99488 | -.98316 | -1.00710 | 0.01998 | 0.02394 | 0.00087 |

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OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01(+TO-)

(02F049) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 259/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|----------|----------|----------|----------|---------|---------|---------|
| .599 | -4.820 | -4.79920 | -4.86380 | 4.64360 | 4.97280 | -.06460 | .32920 | -.17330 |
| .598 | -3.967 | -4.16780 | -3.83530 | 3.79000 | 4.07370 | .33240 | .28370 | -.17330 |
| .599 | -2.941 | -3.04760 | -2.89000 | 2.77680 | 3.05000 | .15760 | .27320 | -.17330 |
| .599 | -1.947 | -1.99800 | -1.94070 | 1.86780 | 1.97980 | .05730 | .11200 | -.17330 |
| .599 | -.996 | -.96970 | -.99060 | 1.03370 | .99010 | -.02090 | -.04360 | -.17330 |
| .600 | -.004 | .02550 | .00000 | .02300 | .01980 | -.02550 | -.00320 | -.18340 |
| .598 | .965 | .94110 | .97900 | -.97000 | -.96970 | .03790 | .00030 | -.18340 |
| .599 | 1.985 | 1.97360 | 2.02510 | -1.95120 | -1.98870 | .05150 | -.03750 | -.18340 |
| .599 | 2.933 | 2.97440 | 3.01470 | -2.91080 | -2.83260 | .04030 | .07820 | -.18340 |
| .599 | 3.949 | 3.96180 | 3.92260 | -3.95710 | -3.95450 | -.03920 | .00270 | -.18340 |
| .599 | 4.915 | 5.00610 | 4.88860 | -4.87330 | -4.89240 | -.11750 | -.01910 | -.17330 |
| GRADIENT | 1.01572 | .99641 | .99641 | -.97678 | -1.01110 | -.01931 | -.03432 | -.00094 |

RUN NO. 205/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|----------|----------|----------|----------|---------|---------|---------|
| .902 | -4.930 | -4.96230 | -4.97480 | 4.86140 | 4.92080 | -.01250 | .05940 | .01040 |
| .902 | -4.050 | -4.30650 | -3.91850 | 3.94000 | 4.03680 | .38800 | .09680 | .00000 |
| .903 | -3.007 | -3.19030 | -2.95000 | 2.90700 | 2.98000 | .24030 | .07300 | .00000 |
| .902 | -1.998 | -2.15560 | -2.01350 | 1.90450 | 1.91920 | .14200 | .01460 | .00000 |
| .902 | -1.039 | -1.13510 | -1.07030 | 1.01070 | .94060 | .06490 | -.07010 | .01040 |
| .902 | -.005 | -.07070 | -.02280 | -.04000 | -.03030 | .04790 | .00970 | .00000 |
| .903 | .973 | .84150 | .89740 | -1.08650 | -1.06860 | .05590 | .01790 | .00000 |
| .904 | 1.993 | 1.85570 | 1.93950 | -2.12700 | -2.04960 | .08380 | .07740 | .00000 |
| .902 | 2.973 | 2.87150 | 2.94860 | -3.15360 | -2.91830 | .07710 | .23530 | .00000 |
| .901 | 3.996 | 3.88020 | 3.86320 | -4.19600 | -4.04600 | -.01700 | .15000 | .00000 |
| .8-1 | 5.005 | 4.95760 | 4.83050 | -5.27400 | -4.96320 | -.12710 | .31080 | .00000 |
| GRADIENT | 1.00421 | .98400 | .98400 | -1.01169 | -1.00011 | -.02021 | .01157 | -.00083 |

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OAI145 TABULATED FORCE DATA

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ANES 118-1-11 OAI145A 01(+TO-)

(D2F049) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 238/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|----------|----------|----------|----------|---------|---------|--------|
| 1.202 | -4.820 | -4.78960 | -4.84160 | 4.56340 | 4.98350 | -.05200 | .32010 | .09340 |
| 1.202 | -3.969 | -4.16780 | -3.84570 | 3.77000 | 4.09210 | .32200 | .32210 | .09340 |
| 1.201 | -2.931 | -3.04760 | -2.86000 | 2.77680 | 3.04000 | .18760 | .26320 | .09340 |
| 1.202 | -1.954 | -2.01880 | -1.93030 | 1.88620 | 1.97980 | .08850 | .09360 | .08310 |
| 1.201 | -1.004 | -.97980 | -.97920 | 1.04510 | 1.01010 | .00060 | -.03500 | .08310 |
| 1.200 | -.000 | .03400 | .02040 | .04590 | .00990 | -.01360 | -.03600 | .08310 |
| 1.202 | .960 | .95020 | .96880 | -.97000 | -.94950 | .01860 | .02050 | .09340 |
| 1.201 | 1.992 | 1.97360 | 2.02510 | -1.98000 | -1.98870 | .05150 | -.00870 | .09340 |
| 1.200 | 2.946 | 2.99500 | 3.02570 | -2.94020 | -2.82390 | .03070 | .11630 | .09340 |
| 1.204 | 3.952 | 3.95160 | 3.92260 | -3.97860 | -3.95450 | -.02900 | .02410 | .09340 |
| 1.200 | 4.923 | 5.01580 | 4.91180 | -4.98220 | -4.98730 | -.10400 | -.00100 | .09340 |
| | GRADIENT | 1.01555 | .99503 | -.97906 | -1.01038 | -.02051 | -.03132 | .00029 |

ANES 118-1-11 OAI145A 01

(D2F050) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = 10.000
 AILRON = 3.000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 265/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|----------|----------|---------|---------|--------|---------|---------|
| .590 | -5.765 | 13.07800 | 13.23700 | 6.43330 | 7.01090 | .15920 | .57760 | -.15290 |
| .590 | -.875 | 13.06100 | 13.23700 | 6.43330 | 7.01090 | .17630 | .57760 | -.15290 |
| .597 | 1.656 | 13.06100 | 13.23700 | 6.42220 | 7.01090 | .17630 | .58870 | -.14270 |
| .598 | 4.230 | 13.06100 | 13.23700 | 6.43330 | 7.01090 | .17630 | .57760 | -.14270 |
| .597 | 6.252 | 13.06900 | 13.23700 | 6.43330 | 7.01090 | .16780 | .57760 | -.14270 |
| .599 | 7.297 | 13.06900 | 13.23700 | 6.43330 | 7.01090 | .16780 | .57760 | -.14270 |
| .598 | 9.347 | 13.06100 | 13.23700 | 6.43330 | 7.01090 | .17630 | .57760 | -.15290 |
| .597 | 11.401 | 13.06900 | 13.24600 | 6.42220 | 7.01090 | .17730 | .58870 | -.17330 |
| .597 | 14.446 | 13.06900 | 13.23700 | 6.43330 | 7.01090 | .16780 | .57760 | -.18340 |
| | GRADIENT | .00000 | .00000 | .00001 | .00000 | .00000 | -.00001 | .00199 |

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OAI45 TABULATED FORCE DATA

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(02F050) (16 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

BETA = .000 ELEVON = 10.000
 AILRON = 3.000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 251/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|---------|---------|---------|--------|--------|
| .800 | -5.564 | 13.06900 | 13.23700 | 6.53330 | 6.98980 | .16780 | .45650 | .00000 |
| .800 | -7.796 | 13.06900 | 13.23700 | 6.53330 | 6.98980 | .16780 | .45650 | .01040 |
| .800 | 1.724 | 13.06900 | 13.23700 | 6.53330 | 6.98980 | .16780 | .45650 | .03110 |
| .797 | 4.225 | 13.06900 | 13.22700 | 6.53330 | 6.98980 | .15820 | .45650 | .04150 |
| .798 | 6.299 | 13.06900 | 13.23700 | 6.53330 | 6.98980 | .16780 | .45650 | .05190 |
| .800 | 7.302 | 13.06100 | 13.22700 | 6.53330 | 6.98980 | .16670 | .45650 | .04150 |
| .798 | 9.357 | 13.06900 | 13.23700 | 6.53330 | 6.98980 | .16780 | .45650 | .01040 |
| .799 | 11.417 | 13.06100 | 13.22700 | 6.53330 | 6.98980 | .16670 | .45650 | .04150 |
| .798 | 14.482 | 13.06100 | 13.23700 | 6.53330 | 6.98980 | .17630 | .45650 | .00000 |
| GRADIENT | | .00000 | -.00199 | .00000 | .00000 | -.00191 | .00000 | .00620 |

RUN NO. 198/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|---------|---------|---------|---------|---------|
| .902 | -4.645 | 13.11200 | 13.21800 | 6.83330 | 6.94900 | .10600 | .11560 | -.17330 |
| .901 | .495 | 13.11200 | 13.21800 | 6.83330 | 6.94900 | .10600 | .11560 | -.18340 |
| .902 | 3.017 | 13.11200 | 13.20800 | 6.84440 | 6.94900 | .09640 | .10450 | -.22420 |
| .899 | 5.585 | 13.11200 | 13.20800 | 6.83330 | 6.94900 | .09640 | .11560 | -.22420 |
| .893 | 7.615 | 13.10300 | 13.20800 | 6.84440 | 6.94900 | .10490 | .10450 | -.20380 |
| .900 | 8.641 | 13.10300 | 13.20800 | 6.84440 | 6.95920 | .10490 | .11470 | -.19360 |
| .899 | 10.681 | 13.10300 | 13.20800 | 6.83330 | 6.95920 | .10490 | .12590 | -.13250 |
| .900 | 12.749 | 13.09500 | 13.20800 | 6.84440 | 6.94900 | .11350 | .10450 | -.10190 |
| .900 | 15.834 | 13.09500 | 13.19900 | 6.83330 | 6.94900 | .10390 | .11560 | -.12230 |
| GRADIENT | | .00000 | -.00111 | .00124 | .00000 | -.00107 | -.00124 | -.00595 |

RUN NO. 230/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|---------|---------|--------|--------|--------|
| 1.198 | -5.825 | 12.94100 | 13.25600 | 6.48890 | 7.00000 | .31490 | .51110 | .08310 |
| 1.202 | -.830 | 12.94100 | 13.24600 | 6.48890 | 7.00000 | .30530 | .51110 | .07270 |
| 1.197 | 1.739 | 12.94100 | 13.24600 | 6.48890 | 7.00000 | .30530 | .51110 | .06230 |
| 1.194 | 4.320 | 12.93300 | 13.24600 | 6.48890 | 7.00000 | .31390 | .51110 | .07270 |
| 1.200 | 6.341 | 13.06100 | 13.24600 | 6.48890 | 7.00000 | .18590 | .51110 | .10380 |
| 1.197 | 7.387 | 13.06100 | 13.24600 | 6.48890 | 7.00000 | .18590 | .51110 | .10380 |
| 1.196 | 9.469 | 13.05200 | 13.24600 | 6.48890 | 7.00000 | .19440 | .51110 | .09340 |
| 1.193 | 11.551 | 13.05200 | 13.24600 | 6.50000 | 7.00000 | .19440 | .50000 | .08310 |
| 1.198 | 14.675 | 13.04300 | 13.24600 | 6.48890 | 7.00000 | .20290 | .51110 | .13500 |
| GRADIENT | | -.00155 | .00000 | .00000 | .00000 | .00167 | .00000 | .00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(02F050) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO BETA = .000 ELEVON = 10.000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = 3.000 BOFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDBRK = 25.000 RUDDER = .000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 281/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|----------|----------|---------|---------|--------|--------|---------|
| 1.297 | -5.836 | 13.07800 | 13.23700 | 6.54440 | 7.00000 | .15920 | .45560 | -.03060 |
| 1.296 | -7.758 | 13.06900 | 13.22700 | 6.54440 | 7.00000 | .15820 | .45560 | -.03060 |
| 1.296 | 1.723 | 13.06100 | 13.22700 | 6.55560 | 7.00000 | .16670 | .44440 | -.03060 |
| 1.297 | 4.286 | 13.06100 | 13.22700 | 6.54440 | 7.00000 | .16670 | .45560 | -.04080 |
| 1.297 | 6.295 | 13.06100 | 13.22700 | 6.55560 | 7.00000 | .16670 | .44440 | -.04080 |
| 1.297 | 7.340 | 13.06100 | 13.22700 | 6.54440 | 7.00000 | .16670 | .45560 | -.04080 |
| 1.295 | 9.377 | 13.06100 | 13.22700 | 6.54440 | 7.00000 | .16670 | .45560 | -.04080 |
| 1.295 | 11.493 | 13.06100 | 13.22700 | 6.54440 | 7.00000 | .16670 | .45560 | -.04080 |
| 1.294 | 14.563 | 13.05200 | 13.21800 | 6.54440 | 7.00000 | .16570 | .45560 | -.04080 |
| | GRADIENT | -.00158 | .00000 | -.00002 | -.00000 | .00168 | .00002 | -.00203 |

RUN NO. 212/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|----------|----------|---------|---------|--------|--------|---------|
| 1.402 | -5.003 | 13.07800 | 13.23700 | 6.55560 | 7.00000 | .15920 | .44440 | -.07130 |
| 1.403 | .143 | 13.06900 | 13.22700 | 6.55560 | 7.00000 | .15820 | .44440 | -.08150 |
| 1.401 | 2.624 | 13.06100 | 13.22700 | 6.55560 | 7.00000 | .16670 | .44440 | -.07130 |
| 1.400 | 5.224 | 13.06100 | 13.22700 | 6.55560 | 7.00000 | .16670 | .44440 | -.07130 |
| 1.399 | 7.156 | 13.06100 | 13.22700 | 6.55560 | 7.00000 | .16670 | .44440 | -.08150 |
| 1.399 | 8.215 | 13.06100 | 13.22700 | 6.55560 | 7.00000 | .16670 | .44440 | -.08150 |
| 1.397 | 10.365 | 13.06100 | 13.21800 | 6.55560 | 7.00000 | .15720 | .44440 | -.07130 |
| 1.398 | 12.471 | 13.05200 | 13.21800 | 6.56670 | 6.98980 | .16570 | .42310 | -.08150 |
| | GRADIENT | -.00323 | -.00000 | .00000 | .00000 | .00343 | .00000 | .00411 |

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OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(02F051) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

BETA = .000 ELEVON = 10.000
 AILRON = 5.000 BDELAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 266/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|---------|---------|--------|--------|---------|
| .599 | -5.759 | 15.01500 | 15.03300 | 4.63370 | 4.98350 | .01800 | .34980 | -.11210 |
| .598 | -.808 | 15.01500 | 15.03300 | 4.63370 | 4.98350 | .01800 | .34980 | -.11210 |
| .598 | 1.731 | 15.00600 | 15.03300 | 4.63370 | 4.98350 | .02760 | .34980 | -.11210 |
| .598 | 4.260 | 15.00600 | 15.03300 | 4.63370 | 4.98350 | .02760 | .34980 | -.11210 |
| .598 | 6.249 | 14.99600 | 15.02200 | 4.63370 | 4.98350 | .02570 | .34980 | -.11210 |
| .598 | 7.292 | 15.00600 | 15.03300 | 4.63370 | 4.98350 | .02760 | .34980 | -.11210 |
| .598 | 9.344 | 15.00600 | 15.03300 | 4.63370 | 4.98350 | .02760 | .34980 | -.11210 |
| .596 | 11.376 | 14.99600 | 15.02200 | 4.63370 | 4.98350 | .02570 | .34980 | -.11210 |
| .598 | 14.361 | 14.98700 | 15.02200 | 4.63370 | 4.98350 | .03530 | .34980 | -.10190 |
| GRADIENT | | -.00178 | .00000 | .00000 | .00000 | .00190 | .00000 | .00000 |

RUN NO. 252/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|---------|---------|--------|--------|---------|
| .799 | -5.804 | 14.99600 | 15.02200 | 4.70300 | 4.98350 | .02570 | .28050 | -.03060 |
| .801 | -.811 | 14.99600 | 15.01000 | 4.70300 | 4.98350 | .01420 | .28050 | -.03060 |
| .799 | 1.730 | 14.99600 | 15.01000 | 4.70300 | 4.98350 | .01420 | .28050 | .00000 |
| .797 | 4.254 | 14.97700 | 15.01000 | 4.69310 | 4.98350 | .03340 | .29040 | .00000 |
| .799 | 6.290 | 14.98700 | 15.01000 | 4.70300 | 4.98350 | .02380 | .28050 | .01040 |
| .798 | 7.313 | 14.98700 | 15.01000 | 4.70300 | 4.98350 | .02380 | .28050 | .01040 |
| .797 | 9.349 | 14.98700 | 15.01000 | 4.70300 | 4.98350 | .02380 | .28050 | .02080 |
| .800 | 11.407 | 14.98700 | 15.01000 | 4.70300 | 4.98350 | .02380 | .28050 | .02080 |
| .800 | 14.475 | 14.98700 | 15.01000 | 4.70300 | 4.98350 | .02380 | .28050 | -.09170 |
| GRADIENT | | -.00375 | .00000 | -.00195 | -.00000 | .00379 | .00195 | .00605 |

RUN NO. 199/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|---------|---------|---------|--------|--------|
| .901 | -4.717 | 15.09200 | 14.97600 | 4.84160 | 4.89320 | -.11640 | .05160 | .00000 |
| .899 | .480 | 15.08300 | 14.97600 | 4.84160 | 4.90240 | -.10670 | .06080 | .00000 |
| .901 | 3.010 | 15.09200 | 14.98700 | 4.84160 | 4.90240 | -.10490 | .06080 | .00000 |
| .901 | 5.575 | 15.09200 | 14.97600 | 4.84160 | 4.90240 | -.11640 | .06080 | .00000 |
| .901 | 7.609 | 15.09200 | 14.97600 | 4.84160 | 4.90240 | -.11640 | .06080 | .00000 |
| .900 | 8.631 | 15.08300 | 14.96400 | 4.85150 | 4.90240 | -.11820 | .05090 | .00000 |
| .900 | 10.668 | 15.08300 | 14.97600 | 4.84160 | 4.90240 | -.10670 | .06080 | .00000 |
| .898 | 12.725 | 15.08300 | 14.96400 | 4.84160 | 4.90240 | -.11820 | .06080 | .00000 |
| .898 | 15.811 | 15.08300 | 14.96400 | 4.84160 | 4.90240 | -.11820 | .06080 | .00000 |
| GRADIENT | | -.00026 | .00121 | -.00000 | .00128 | .00154 | .00128 | .00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1379

AMES 118-1-11 OAI45A 01

(02F051) (15 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = 10.000
 AILRON = 5.000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 231/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|----------|----------|---------|---------|--------|---------|--------|
| 1.200 | -5.826 | 15.00600 | 15.03300 | 4.65350 | 4.98350 | .02760 | .33000 | .12460 |
| 1.205 | - .826 | 14.99600 | 15.02200 | 4.65350 | 4.98350 | .02570 | .33000 | .12460 |
| 1.199 | 1.740 | 14.98700 | 15.02200 | 4.65350 | 4.97280 | .03530 | .31930 | .13500 |
| 1.194 | 4.319 | 14.98700 | 15.02200 | 4.65350 | 4.97280 | .03530 | .31930 | .13500 |
| 1.196 | 6.345 | 14.98700 | 15.02200 | 4.65350 | 4.97280 | .03530 | .31930 | .14540 |
| 1.195 | 7.308 | 14.98700 | 15.02200 | 4.65350 | 4.98350 | .03530 | .33000 | .14540 |
| 1.199 | 9.448 | 14.98700 | 15.02200 | 4.65350 | 4.98350 | .03530 | .33000 | .13500 |
| 1.197 | 11.531 | 14.98700 | 15.02200 | 4.65350 | 4.98350 | .02380 | .33000 | .12460 |
| 1.186 | 14.663 | 14.98700 | 15.01000 | 4.65350 | 4.98350 | .02380 | .33000 | .12460 |
| | GRADIENT | -.00175 | .00000 | .00000 | -.00208 | .00186 | -.00208 | .00202 |

RUN NO. 222/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|----------|----------|---------|---------|---------|--------|---------|
| 1.297 | -5.831 | 15.02500 | 15.01000 | 4.69310 | 4.98350 | -.01460 | .29040 | -.03060 |
| 1.299 | - .826 | 15.01500 | 15.01000 | 4.69310 | 4.97280 | -.00500 | .27970 | -.03060 |
| 1.296 | 1.690 | 15.00600 | 15.01000 | 4.70300 | 4.97280 | .00460 | .26980 | -.03060 |
| 1.296 | 4.246 | 15.00600 | 15.01000 | 4.69310 | 4.97280 | .00460 | .27970 | -.03060 |
| 1.294 | 6.285 | 15.00600 | 15.01000 | 4.69310 | 4.98350 | .00460 | .29040 | -.03060 |
| 1.295 | 7.335 | 15.00600 | 15.01000 | 4.69310 | 4.97280 | .00460 | .27970 | -.03060 |
| 1.295 | 9.400 | 15.00600 | 14.99900 | 4.69310 | 4.97280 | -.00690 | .27970 | -.03060 |
| 1.295 | 11.529 | 15.00600 | 14.99900 | 4.69310 | 4.97280 | -.00690 | .27970 | -.03060 |
| 1.294 | 14.578 | 15.01500 | 14.99900 | 4.69310 | 4.98350 | -.01650 | .29040 | -.03060 |
| | GRADIENT | -.00177 | .00000 | -.00001 | -.00000 | .00189 | .00001 | -.00000 |

RUN NO. 213/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|--------|----------|----------|---------|---------|---------|---------|--------|
| 1.403 | -5.021 | 15.02500 | 15.01000 | 4.70300 | 4.97280 | -.01460 | .26980 | .08310 |
| 1.409 | .071 | 15.01500 | 15.01000 | 4.70300 | 4.97280 | -.00500 | .26980 | .08310 |
| 1.401 | 2.659 | 15.00600 | 15.01000 | 4.70300 | 4.97280 | .00460 | .26980 | .08310 |
| 1.401 | 5.133 | 15.00600 | 14.99900 | 4.70300 | 4.97280 | -.00690 | .26980 | .09340 |
| 1.399 | 7.228 | 15.00600 | 14.99900 | 4.70300 | 4.97280 | -.00690 | .26980 | .10380 |
| 1.398 | 8.183 | 14.99600 | 15.02200 | 4.70300 | 4.97280 | .02570 | .26980 | .10380 |
| 1.397 | 10.226 | 15.00600 | 15.02200 | 4.70300 | 4.97280 | .01610 | .26980 | .10380 |
| 1.397 | 12.377 | 15.00600 | 15.02200 | 4.70300 | 4.97280 | .01610 | .26980 | .09340 |
| 1.398 | | -.00348 | .00000 | -.00000 | .00000 | .00371 | -.00000 | .00000 |

AMES 118-1-11 OAI45A 01

(D2F052) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = -10.000
 AILRON = 3.000 BDELAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 263/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|-----------|-----------|--------|--------|--------|
| .599 | -5.845 | -7.03420 | -6.80600 | -12.95800 | -12.87400 | .22820 | .08410 | .00000 |
| .600 | -825 | -7.03420 | -6.80600 | -12.96900 | -12.87400 | .22820 | .09440 | .00000 |
| .600 | 1.714 | -7.04380 | -6.80600 | -12.97900 | -12.87400 | .23780 | .10460 | .00000 |
| .599 | 4.185 | -7.03420 | -6.80600 | -12.97900 | -12.87400 | .22820 | .10460 | .00000 |
| .599 | 6.244 | -7.04380 | -6.80600 | -12.96900 | -12.87400 | .23780 | .09440 | .00000 |
| .598 | 7.276 | -7.04380 | -6.80600 | -12.96900 | -12.87400 | .23780 | .09440 | .00000 |
| .597 | 9.311 | -7.04380 | -6.80600 | -12.96900 | -12.87400 | .23780 | .09440 | .00000 |
| .597 | 11.386 | -7.05340 | -6.80600 | -12.96900 | -12.87400 | .24740 | .09440 | .00000 |
| .596 | 14.452 | -7.04380 | -6.80600 | -12.97900 | -12.87400 | .23780 | .10460 | .00000 |
| GRADIENT | | -.00002 | .00000 | -.00201 | .00000 | .00002 | .00205 | .00000 |

RUN NO. 249/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|-----------|-----------|--------|--------|---------|
| .801 | -4.401 | -7.04380 | -6.82760 | -12.97900 | -12.88500 | .21620 | .09380 | .13500 |
| .801 | -858 | -7.04380 | -6.82760 | -12.98900 | -12.88500 | .21620 | .10410 | .14540 |
| .801 | 1.652 | -7.04380 | -6.82760 | -12.99900 | -12.88500 | .21620 | .11430 | .13500 |
| .801 | 4.158 | -7.05340 | -6.82760 | -12.99900 | -12.88500 | .22580 | .11430 | .12460 |
| .800 | 6.242 | -7.04380 | -6.83840 | -12.98900 | -12.88500 | .20540 | .10410 | .12460 |
| .801 | 7.274 | -7.04380 | -6.83840 | -12.98900 | -12.88500 | .20540 | .10410 | .14540 |
| .797 | 9.291 | -7.04380 | -6.83840 | -12.99900 | -12.88500 | .20540 | .11430 | .11420 |
| .798 | 11.374 | -7.04380 | -6.83840 | -12.99900 | -12.88500 | .20540 | .11430 | .09340 |
| .800 | 14.472 | -7.04380 | -6.83840 | -12.99900 | -12.88500 | .20540 | .11430 | .02080 |
| GRADIENT | | -.00096 | .00000 | -.00252 | -.00000 | .00096 | .00258 | -.00130 |

RUN NO. 196/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|-----------|-----------|--------|--------|---------|
| .901 | -4.897 | -7.24540 | -6.91400 | -13.70800 | -13.00400 | .33140 | .70360 | -.07130 |
| .901 | .348 | -7.24540 | -6.91400 | -13.70800 | -13.00400 | .33140 | .70360 | -.08150 |
| .900 | 2.925 | -7.24540 | -6.91400 | -13.70800 | -13.00400 | .33140 | .70360 | -.09170 |
| .899 | 5.453 | -7.24540 | -6.91400 | -13.71800 | -13.00400 | .33140 | .71380 | -.07130 |
| .900 | 7.497 | -7.24540 | -6.91400 | -13.71800 | -13.00400 | .33140 | .71380 | -.08150 |
| .899 | 8.518 | -7.25500 | -6.92480 | -13.70800 | -13.00400 | .33020 | .70360 | -.08150 |
| .899 | 10.575 | -7.24540 | -6.92480 | -13.71800 | -13.00400 | .32060 | .71380 | -.05100 |
| .899 | 12.653 | -7.25500 | -6.91400 | -13.71800 | -13.00400 | .34100 | .71380 | -.04080 |
| .899 | 15.714 | -7.25500 | -6.91400 | -13.70800 | -13.01500 | .34100 | .69270 | -.08150 |
| GRADIENT | | -.00000 | -.00000 | -.00000 | -.00000 | .00000 | .00000 | -.00251 |

DATE 10 MAR 80

OAI145 TABULATED FORCE DATA

PAGE 1381

AMES 118-1-11 OAI145A 01

(02F052) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETA = .000 ELEVON = -10.000
 AILRON = 3.000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 228/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|-----------|-----------|--------|--------|--------|
| 1.201 | -5.852 | -7.03420 | -6.81680 | -12.98900 | -12.88500 | .21740 | .10410 | .04150 |
| 1.202 | -8.19 | -7.03420 | -6.81680 | -12.98900 | -12.88500 | .21740 | .10410 | .07270 |
| 1.202 | 1.746 | -7.03420 | -6.81680 | -12.98900 | -12.88500 | .21740 | .10410 | .07270 |
| 1.198 | 4.283 | -7.03420 | -6.81680 | -12.98900 | -12.88500 | .20660 | .10410 | .08310 |
| 1.197 | 6.292 | -7.03420 | -6.82760 | -12.98900 | -12.88500 | .20660 | .10410 | .11420 |
| 1.198 | 7.325 | -7.03420 | -6.82760 | -12.98900 | -12.88500 | .20660 | .10410 | .13500 |
| 1.195 | 9.415 | -7.03420 | -6.82760 | -12.98900 | -12.88500 | .20660 | .10410 | .09340 |
| 1.194 | 11.495 | -7.03420 | -6.82760 | -12.98900 | -12.88500 | .20660 | .10410 | .09340 |
| 1.190 | 14.688 | -7.03420 | -6.82760 | -12.98900 | -12.88500 | .20660 | .10410 | .08310 |
| GRADIENT | | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00203 |

RUN NO. 219/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|-----------|-----------|--------|--------|--------|
| 1.297 | -5.145 | -7.04380 | -6.81680 | -12.97900 | -12.87400 | .22700 | .10460 | .00000 |
| 1.296 | .127 | -7.05340 | -6.81680 | -12.97900 | -12.87400 | .23660 | .10460 | .00000 |
| 1.296 | 2.634 | -7.05340 | -6.82760 | -12.97900 | -12.87400 | .22580 | .10460 | .00000 |
| 1.294 | 5.220 | -7.05340 | -6.82760 | -12.97900 | -12.87400 | .22580 | .10460 | .02080 |
| 1.295 | 7.253 | -7.04380 | -6.82760 | -12.97900 | -12.87400 | .21620 | .10460 | .01040 |
| 1.296 | 8.281 | -7.05340 | -6.82760 | -12.97900 | -12.87400 | .22580 | .10460 | .02080 |
| 1.296 | 10.367 | -7.05340 | -6.82760 | -12.97900 | -12.87400 | .22580 | .10460 | .02080 |
| 1.295 | 12.437 | -7.05340 | -6.82760 | -12.98900 | -12.86300 | .22580 | .12570 | .02080 |
| 1.294 | 15.586 | -7.05340 | -6.82760 | -12.97900 | -12.86300 | .22580 | .11550 | .03060 |
| GRADIENT | | .00000 | .00431 | .00000 | .00000 | .00431 | .00000 | .00000 |

RUN NO. 210/ 0 RN/L = 5.09 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|-----------|-----------|--------|--------|--------|
| 1.404 | -5.113 | -7.04380 | -6.82760 | -12.98900 | -12.88500 | .21620 | .10410 | .06110 |
| 1.404 | .044 | -7.04380 | -6.82760 | -12.98900 | -12.88500 | .21620 | .10410 | .05100 |
| 1.403 | 2.591 | -7.04380 | -6.83840 | -12.98900 | -12.88500 | .20540 | .10410 | .05100 |
| 1.400 | 5.117 | -7.04380 | -6.83840 | -12.98900 | -12.88500 | .20540 | .10410 | .05100 |
| 1.399 | 7.126 | -7.04380 | -6.83840 | -12.98900 | -12.88500 | .20540 | .10410 | .05100 |
| 1.400 | 8.162 | -7.05340 | -6.83840 | -12.98900 | -12.88500 | .21500 | .10410 | .06110 |
| 1.401 | 10.299 | -7.04380 | -6.83840 | -12.98900 | -12.88500 | .20540 | .10410 | .07130 |
| 1.399 | 12.358 | -7.04380 | -6.83840 | -12.98900 | -12.88500 | .20540 | .10410 | .08150 |
| 1.400 | 15.483 | -7.04380 | -6.83840 | -12.98900 | -12.88500 | .20540 | .10410 | .09170 |
| GRADIENT | | .00000 | .00424 | .00000 | .00000 | .00424 | .00000 | .00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1382

AMES 118-1-11 OAI45A 01

(02F053) (16 JUL 77)

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = -10.000
 AILRON = 5.000 BOFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 268/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|-----------|-----------|---------|---------|--------|
| .596 | -5.885 | -4.79920 | -4.85270 | -14.97400 | -14.93600 | -.05350 | .03740 | .00000 |
| .601 | -.994 | -4.79920 | -4.85270 | -14.97400 | -14.92600 | -.05350 | .04770 | .00000 |
| .600 | 1.692 | -4.79920 | -4.85270 | -14.96400 | -14.92600 | -.05350 | .03790 | .00000 |
| .599 | 4.163 | -4.79920 | -4.85270 | -14.96400 | -14.92600 | -.05350 | .03790 | .00000 |
| .599 | 6.224 | -4.79920 | -4.85270 | -14.97400 | -14.92600 | -.05350 | .04770 | .00000 |
| .598 | 7.253 | -4.79920 | -4.85270 | -14.97400 | -14.92600 | -.05350 | .04770 | .00000 |
| .598 | 9.292 | -4.80880 | -4.85270 | -14.97400 | -14.92600 | -.04390 | .04770 | .00000 |
| .597 | 11.359 | -4.81840 | -4.85270 | -14.96400 | -14.92600 | -.03430 | .03790 | .00000 |
| .597 | 14.446 | -4.80880 | -4.85270 | -14.96400 | -14.92600 | -.04390 | .03790 | .00000 |
| GRADIENT | | .00000 | .00000 | .00197 | .00000 | .00000 | -.00193 | .00000 |

RUN NO. 254/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|-----------|-----------|---------|--------|---------|
| .798 | -5.855 | -4.80880 | -4.87490 | -14.94400 | -14.93600 | -.06610 | .00800 | -.14270 |
| .802 | -.853 | -4.81840 | -4.87490 | -14.95400 | -14.93600 | -.05650 | .01780 | -.09170 |
| .801 | 1.659 | -4.81840 | -4.87490 | -14.95400 | -14.93600 | -.05650 | .01780 | -.01020 |
| .802 | 4.171 | -4.82800 | -4.87490 | -14.96400 | -14.93600 | -.04690 | .02760 | -.09170 |
| .800 | 6.229 | -4.83760 | -4.87490 | -14.95400 | -14.93600 | -.03730 | .01780 | -.09170 |
| .800 | 7.261 | -4.83760 | -4.87490 | -14.95400 | -14.93600 | -.03730 | .01780 | -.09170 |
| .798 | 9.290 | -4.81840 | -4.87490 | -14.95400 | -14.93600 | -.05650 | .01780 | -.03060 |
| .799 | 11.355 | -4.82800 | -4.87490 | -14.95400 | -14.93600 | -.04690 | .01780 | .00000 |
| .801 | 14.459 | -4.81840 | -4.87490 | -14.96400 | -14.93600 | -.05650 | .02760 | -.01020 |
| GRADIENT | | -.00191 | .00000 | -.00199 | .00000 | .00191 | .00195 | .00000 |

RUN NO. 201/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|--------|----------|----------|-----------|-----------|--------|--------|---------|
| .899 | -4.804 | -4.96230 | -4.95260 | -15.75500 | -15.06000 | .00970 | .69540 | -.19360 |
| .902 | .367 | -4.97190 | -4.95260 | -15.75500 | -15.06000 | .01930 | .69540 | -.23440 |
| .902 | 2.926 | -4.97190 | -4.95260 | -15.75500 | -15.06000 | .01930 | .69540 | -.32610 |
| .899 | 5.475 | -4.97190 | -4.96370 | -15.75500 | -15.06000 | .00820 | .69540 | -.32610 |
| .897 | 7.531 | -4.97190 | -4.95260 | -15.75500 | -15.06000 | .01930 | .69540 | -.01020 |
| .901 | 8.584 | -4.97190 | -4.96370 | -15.75500 | -15.06000 | .00820 | .69540 | .00000 |
| .901 | 10.607 | -4.97190 | -4.96370 | -15.76500 | -15.06000 | .00820 | .70500 | .07270 |
| .899 | 12.685 | -4.97190 | -4.96370 | -15.76500 | -15.07000 | .00820 | .69470 | .06230 |
| .899 | 15.759 | -4.98150 | -4.96370 | -15.75500 | -15.06000 | .01780 | .69540 | .05190 |
| .900 | | -.00133 | -.00000 | -.00000 | -.00000 | .00133 | .00000 | -.01580 |

DATE 10 MAR 80

OA145 TABULATED FORCE DATA

PAGE 1383

AMES 118-1-11 0A145A 01

(02F053) (16 JUL 77)

REFERENCE DATA

| | | | | | | | | | | |
|---|-------|---|-----------|--------|---|------|---|-----------|-----|----|
| = | SREF | = | 2690.0000 | SQ.FT. | = | XMRP | = | 1076.6800 | IN. | XO |
| = | LREF | = | 474.8100 | INCHES | = | YMRP | = | .0000 | IN. | YO |
| = | BREF | = | 936.6800 | INCHES | = | ZMRP | = | 375.0000 | IN. | ZO |
| = | SCALE | = | .0500 | | | | | | | |

PARAMETRIC DATA

| | | | | | |
|--------|---|--------|--------|---|---------|
| BETA | = | .000 | ELEVON | = | -10.000 |
| AILRON | = | 5.000 | BDFLAP | = | .000 |
| SPDBRK | = | 25.000 | RUDDER | = | .000 |
| RN/L | = | 5.000 | | | |

| | | | | | | |
|---------|--------|--------|------|---------------------|--------|------|
| RUN NO. | 233/ 0 | RN/L = | 5.00 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|---------|--------|--------|------|---------------------|--------|------|

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|-----------|-----------|---------|--------|--------|
| 1.202 | -4.500 | -4.78000 | -4.86270 | -14.96400 | -14.92600 | -.07270 | .03790 | .09340 |
| 1.202 | -.794 | -4.78000 | -4.86380 | -14.96400 | -14.92600 | -.08380 | .03790 | .07270 |
| 1.201 | 1.201 | -4.78960 | -4.86380 | -14.97400 | -14.92600 | -.07420 | .04770 | .09340 |
| 1.199 | 4.307 | -4.78960 | -4.86380 | -14.97400 | -14.92600 | -.07420 | .04770 | .10380 |
| 1.196 | 6.324 | -4.78960 | -4.86380 | -14.97400 | -14.92600 | -.07420 | .03740 | .09340 |
| 1.199 | 7.362 | -4.78960 | -4.86380 | -14.97400 | -14.92600 | -.07420 | .04770 | .10380 |
| 1.196 | 9.434 | -4.78960 | -4.86380 | -14.97400 | -14.92600 | -.07420 | .04770 | .09340 |
| 1.202 | 11.524 | -4.78960 | -4.86380 | -14.97400 | -14.92600 | -.07420 | .04770 | .07270 |
| 1.199 | 14.560 | -4.79920 | -4.86380 | -14.97400 | -14.92600 | -.06460 | .04770 | .07270 |
| GRADIENT | | -.00129 | -.00123 | -.00134 | .00000 | .00006 | .00131 | .00149 |

| | | | | | | | | | | |
|---------|-----|---|------|---|------|----------|----------|---|-------|------|
| RUN NO. | 224 | 0 | RN/L | = | 5.02 | GRADIENT | INTERVAL | = | -5.00 | 5.00 |
|---------|-----|---|------|---|------|----------|----------|---|-------|------|

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|-----------|-----------|--------|--------|---------|
| 1.239 | -5.915 | -4.80880 | -4.86380 | -14.97400 | -14.92600 | -05500 | 0.4770 | .00000 |
| 1.300 | -1.829 | -4.80880 | -4.87490 | -14.96400 | -14.92600 | -06610 | 0.3790 | .02080 |
| 1.299 | 1.730 | -4.80880 | -4.87490 | -14.97400 | -14.92600 | -06610 | 0.4770 | .02080 |
| 1.296 | 4.217 | -4.80880 | -4.87490 | -14.97400 | -14.92600 | -06610 | 0.4770 | .01040 |
| 1.295 | 6.249 | -4.80880 | -4.87490 | -14.97400 | -14.92600 | -06610 | 0.4770 | .01040 |
| 1.299 | 7.285 | -4.80880 | -4.87490 | -14.97400 | -14.92600 | -06610 | 0.4770 | .00000 |
| 1.299 | 9.374 | -4.81840 | -4.88600 | -14.97400 | -14.93600 | -06760 | 0.3740 | -.02040 |
| 1.310 | 11.436 | -4.80880 | -4.88600 | -14.97400 | -14.92600 | -07720 | 0.4770 | .00000 |
| 1.306 | 14.566 | -4.80880 | -4.88600 | -14.97400 | -14.92600 | -07720 | 0.4770 | .00000 |
| GRADIENT | | .00000 | .00000 | -.00199 | .00000 | .00000 | .00195 | -.00205 |

| | | | | | | |
|---------|--------|--------|------|---------------------|--------|------|
| RUN NO. | 215/ 0 | RN/L = | 5.00 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|---------|--------|--------|------|---------------------|--------|------|

[illegible]

DATE 10 MAR 80

OAI145 TABULATED FORCE DATA

PAGE 1384

AMES 118-1-11 OAI145A 01

(D2F054) (22 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 AILRON = 5.000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 0/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|-----------|-----------|-----------|-----------|---------|----------|--------|
| .599 | -29.973 | -25.0380 | -25.05700 | -34.73600 | -35.06200 | -0.1940 | -0.32570 | .00000 |
| .600 | -20.000 | -15.14000 | -14.96500 | -24.98900 | -24.90600 | .17530 | .08310 | .00000 |
| .601 | -14.938 | -9.99040 | -9.92380 | -19.91600 | -19.91900 | .06660 | -.00300 | .00000 |
| .599 | -9.896 | -4.80880 | -4.86380 | -14.97400 | -14.93600 | -.05500 | .03740 | .00000 |
| .599 | -5.972 | -.96970 | -.99060 | -11.02100 | -10.90600 | -.02090 | .11520 | .00000 |
| .599 | -3.962 | .95930 | .98920 | -8.90910 | -8.88780 | .02990 | .02130 | .00000 |
| .599 | -1.983 | 2.98470 | 3.01470 | -6.99000 | -6.93940 | .03000 | .05060 | .00000 |
| .599 | .038 | 5.02550 | 4.90020 | -4.89110 | -4.88320 | -.12530 | .00790 | .00000 |
| .599 | 2.044 | 6.96350 | 6.96890 | -2.93040 | -2.82390 | .00540 | .10650 | .00000 |
| .599 | 4.004 | 8.74690 | 9.22780 | -.97000 | -.98990 | .48090 | -.01990 | .00000 |
| .598 | 6.117 | 11.25100 | 11.18000 | 1.04510 | .99010 | -.07150 | -.05500 | .00000 |
| .599 | 9.916 | 15.01500 | 15.02200 | 4.64360 | 4.98350 | .00650 | .33990 | .00000 |
| .599 | 14.888 | 20.05700 | 20.17100 | 9.32920 | 9.99540 | .11360 | .66620 | .00000 |
| .600 | GRADIENT | .97980 | 1.02352 | .99898 | .99770 | .04373 | -.00128 | .00000 |

RUN NO. 0/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|-----------|-----------|-----------|-----------|---------|---------|---------|
| .800 | -29.978 | -25.04800 | -25.05700 | -34.74600 | -35.06200 | -.00910 | -.31560 | -.01020 |
| .802 | -19.998 | -15.14000 | -14.97500 | -24.98000 | -24.89600 | .16490 | .08430 | -.02040 |
| .801 | -14.935 | -9.98060 | -9.92380 | -19.91600 | -19.91900 | .05680 | -.00300 | .04150 |
| .801 | -9.898 | -4.80880 | -4.86380 | -14.97400 | -14.94700 | -.05500 | .02710 | .02080 |
| .801 | -5.974 | -1.00000 | -.96780 | -11.03300 | -10.89500 | .03220 | .13760 | .03110 |
| .800 | -3.972 | .94110 | .98920 | -8.92930 | -8.88780 | .04810 | .04150 | .03110 |
| .800 | -1.998 | 2.96410 | 3.00370 | -7.00000 | -6.95960 | .03960 | .04040 | .07270 |
| .800 | .038 | 5.01580 | 4.90020 | -4.88220 | -4.88320 | -.11560 | -.00100 | .03110 |
| .800 | 2.049 | 6.98130 | 6.96890 | -2.93040 | -2.82390 | -.01240 | .10650 | .02080 |
| .800 | 4.004 | 8.74690 | 9.21960 | -.97000 | -.97980 | .47270 | -.00980 | .03110 |
| .801 | 6.125 | 11.22600 | 11.21800 | 1.04510 | 1.01010 | -.00760 | -.03500 | .06230 |
| .801 | 9.922 | 15.00600 | 15.03300 | 4.66340 | 4.98350 | .02760 | .32010 | .02080 |
| .801 | 14.886 | 20.02800 | 20.18100 | 9.34660 | 9.98610 | .15290 | .63950 | .04150 |
| .801 | GRADIENT | .98159 | 1.02115 | .99950 | .99773 | .03956 | -.00177 | -.00262 |

AMES 118-1-11 0A145A 01

(02F054) (22 JUL 77)

REFERENCE DATA

| | | | |
|-------|---|-----------|--------|
| SREF | = | 2690.0000 | SO.FT. |
| LREF | = | 474.8100 | INCHES |
| BREF | = | 936.6800 | INCHES |
| SCALE | = | .0500 | |

| | | |
|-----------|-----|----|
| 1076.6800 | IN: | X0 |
| .0000 | IN: | Y0 |
| 375.0000 | IN: | Z0 |

PARAMETRIC DATA

| | | | | | |
|--------|---|--------|--------|---|------|
| ALPHA | = | 5.000 | BETA | = | .000 |
| ATLRON | = | 5.000 | BDFLAP | = | .000 |
| SPDBRK | = | 25.000 | RUDDER | = | .000 |
| RN/L | = | 5.000 | | | |

| RUN NO. | 0 | 0 | RN/L | 4.97 | GRADIENT | INTERVAL | -5.00/ | 5.00 |
|---------|---|---|------|------|----------|----------|--------|------|
|---------|---|---|------|------|----------|----------|--------|------|

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|-----------|-----------|-----------|-----------|---------|---------|---------|
| .901 | -20.726 | -25.49100 | -25.92400 | -36.95800 | -35.21200 | 2.4690 | 1.74590 | -.07130 |
| .902 | -20.474 | -15.51700 | -15.08800 | -26.22700 | -25.06500 | .42860 | 1.16200 | -.08150 |
| .902 | -15.355 | -10.23500 | -10.02400 | -21.10400 | -20.05900 | .21180 | 1.04510 | -.07130 |
| .901 | -10.177 | -4.97190 | -4.95260 | -15.74600 | -15.03900 | .01930 | .70640 | -.07130 |
| .902 | -6.220 | -1.12480 | -1.07030 | -11.66500 | -11.01800 | .05450 | .64650 | -.06110 |
| .899 | -4.180 | .85910 | .89740 | -9.40590 | -0.98880 | .03830 | .41610 | -.07130 |
| .901 | -2.135 | 2.90240 | 2.99270 | -7.39600 | -7.03360 | .09030 | .35640 | -.07130 |
| .900 | -1.102 | 4.96730 | 4.81990 | -5.21900 | -4.37400 | .14840 | .24500 | -.07130 |
| .900 | 1.941 | 6.92790 | 6.89860 | -3.15360 | -2.90690 | .02930 | .24660 | -.07130 |
| .900 | 3.951 | 8.72360 | 9.18680 | -1.07690 | -1.02940 | .46320 | .04750 | -.07130 |
| .900 | 6.085 | 11.26000 | 11.15000 | 1.01070 | .92080 | .11030 | -.08990 | -.07130 |
| .899 | 9.965 | 15.08300 | 14.98700 | 4.87130 | 4.92080 | -.09520 | .04950 | -.07130 |
| .900 | 15.012 | 20.13300 | 20.18100 | 9.77390 | 9.95820 | -.04860 | .18430 | -.07130 |
| GRADIENT | | .97324 | 1.00911 | 1.02967 | .98797 | .03587 | -.04170 | -.00000 |

| RUN NO. | 0/ 0 | RN/L = | 4.99 | GRADIENT | INTERVAL = | -5.00/ | 5.00 |
|---------|------|--------|------|----------|------------|--------|------|
|---------|------|--------|------|----------|------------|--------|------|

| MACH | ELEVON | ELV-L0 | ELV-L1 | ELV-R0 | ELV-R1 | DELL | DELR | DRHL |
|----------|---------|-----------|-----------|-----------|-----------|---------|---------|--------|
| .952 | -30.725 | -25.50100 | -25.20000 | -36.97100 | -35.22900 | .30120 | 1.74120 | .00000 |
| .951 | -20.456 | -15.47300 | -15.09900 | -26.21700 | -25.03300 | .37400 | 1.18420 | .01040 |
| .953 | -15.364 | -10.23500 | -10.02400 | -21.12800 | -20.06900 | .21180 | 1.05830 | .01040 |
| .951 | -10.176 | -4.94310 | -4.98990 | -15.73600 | -15.03900 | -.04280 | .69680 | .03110 |
| .951 | -6.214 | -1.09360 | -1.07030 | -11.67500 | -11.01800 | .02330 | .65680 | .03110 |
| .951 | -4.167 | .85910 | .88720 | -9.42570 | -8.98980 | .02810 | .43590 | .00000 |
| .950 | -2.156 | 2.88180 | 2.95960 | -7.42570 | -7.03960 | .07780 | .38610 | .00000 |
| .951 | -.108 | 4.82850 | 4.84210 | -5.25200 | -4.95240 | -.08640 | .29960 | .00000 |
| .951 | 1.934 | 6.91900 | 6.85640 | -3.15360 | -2.88420 | -.06260 | .26940 | .00000 |
| .951 | 3.930 | 8.69260 | 9.15400 | -1.08650 | -1.03920 | .45140 | .04730 | .00000 |
| .951 | 6.091 | 11.25100 | 11.19000 | 1.01070 | .91090 | -.06190 | -.09980 | .00000 |
| .950 | 9.969 | 15.06400 | 14.99900 | 4.89110 | 4.92080 | -.06450 | .02970 | .01040 |
| 15.020 | 19.020 | 20.16200 | 20.16000 | 9.80910 | 9.94890 | -.00180 | 1.3980 | .01040 |
| GRADIENT | | .97141 | 1.00700 | 1.03581 | .98879 | -.03558 | -.04402 | .00000 |

DATE 10 MAR 80

OAI145 TABULATED FORCE DATA

PAGE 1386

(02F054) (22 JUL 77)

AMES 118-1-11 OAI145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = 5.000 BDFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDBRK = 25.000 RUDDER = .000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 0/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|-----------|-----------|-----------|-----------|---------|---------|--------|
| 1.202 | -29.965 | -25.03800 | -25.03500 | -34.72600 | -35.06200 | .00260 | -.33580 | .08310 |
| 1.202 | -19.985 | -15.11800 | -14.95500 | -24.97000 | -24.89600 | .16340 | .07480 | .06230 |
| 1.202 | -14.932 | -9.98060 | -9.90160 | -19.91600 | -19.93000 | .07900 | -.01370 | .08310 |
| 1.201 | -9.883 | -4.78000 | -4.86380 | -14.96400 | -14.92600 | -.08380 | .03790 | .07270 |
| 1.199 | -5.969 | -.96970 | -.95640 | -1.03300 | -10.91700 | .01330 | .11520 | .08310 |
| 1.199 | -3.967 | .95020 | .99940 | -8.91920 | -8.89800 | .04920 | .02120 | .07270 |
| 1.200 | -1.990 | 2.98470 | 3.01470 | -6.99000 | -6.96970 | .03000 | .02030 | .07270 |
| 1.199 | .042 | 5.02550 | 4.90020 | -4.88220 | -4.87400 | .12530 | .00820 | .07270 |
| 1.200 | 2.057 | 6.98130 | 6.98300 | -2.91080 | -2.82390 | .00170 | .08690 | .07270 |
| 1.201 | 4.004 | 8.73910 | 9.22780 | -.97000 | -.97980 | .48870 | -.00980 | .07270 |
| 1.199 | 6.117 | 11.23400 | 11.19900 | 1.02220 | 1.01010 | -.03530 | -.01210 | .08310 |
| 1.198 | 9.921 | 15.02500 | 15.03300 | 4.64360 | 4.98350 | .00840 | .33990 | .09340 |
| 1.202 | 14.878 | 20.00900 | 20.16000 | 9.33790 | 10.00500 | .15070 | .66680 | .07270 |
| GRADIENT | | .97932 | 1.02154 | .99942 | .99971 | .04222 | .00029 | .00000 |

RUN NO. 0/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|-----------|-----------|-----------|-----------|---------|---------|---------|
| 1.297 | -29.986 | -25.04800 | -25.07900 | -34.75600 | -35.06200 | -.03110 | -.30550 | -.03060 |
| 1.299 | -19.997 | -15.14000 | -14.95500 | -24.98900 | -24.90600 | .18560 | .08310 | -.12230 |
| 1.300 | -14.937 | -10.00000 | -9.91270 | -19.91600 | -19.91900 | .08750 | -.00300 | -.15290 |
| 1.297 | -9.881 | -4.78000 | -4.84160 | -14.95400 | -14.94700 | -.06160 | .00750 | .00000 |
| 1.294 | -5.972 | -.96970 | -.97920 | -1.02110 | -10.91700 | -.00950 | .10400 | .02080 |
| 1.295 | -3.975 | .95020 | .96880 | -8.92930 | -8.88780 | .01860 | .04150 | .03110 |
| 1.295 | -1.995 | 2.97440 | 3.01470 | -7.01980 | -6.94950 | .04030 | .07030 | .00000 |
| 1.296 | .040 | 5.00610 | 4.91180 | -4.87330 | -4.88320 | -.09430 | -.00990 | .04150 |
| 1.297 | 2.053 | 6.97240 | 6.98300 | -2.92060 | -2.82390 | .01060 | .09670 | .04150 |
| 1.296 | 4.001 | 8.74690 | 9.22780 | -.93000 | -.97980 | .48090 | .01020 | .05190 |
| 1.297 | 6.125 | 11.23400 | 11.21800 | 1.05660 | .99010 | -.01610 | -.06650 | .04150 |
| 1.296 | 9.934 | 15.01500 | 15.04500 | 4.70300 | 4.97280 | .02950 | .26980 | .02080 |
| 1.297 | 14.726 | 19.60900 | 19.90300 | 9.39890 | 9.99540 | .29390 | .59650 | .05190 |
| GRADIENT | | .97971 | 1.02412 | .99899 | .99721 | .04441 | -.00179 | .00417 |

DATE 10 MAR 80

OAI145 TABULATED FORCE DATA

PAGE 1397

AMES 118-1-11 OAI145A 01 (D2F054) (22 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = 5.000 BDFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDBRK = 25.000 RUDDER = .000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 0/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|-----------|-----------|-----------|-----------|---------|---------|--------|
| 1.403 | -29.992 | -25.05800 | -25.09000 | -34.76600 | -35.05300 | -.03180 | -.28660 | .00000 |
| 1.404 | -19.982 | -15.12900 | -14.96500 | -24.96100 | -24.87400 | .16420 | .08660 | .00000 |
| 1.405 | -14.927 | -10.00000 | -9.91270 | -19.90600 | -19.88700 | .08750 | .01900 | .00000 |
| 1.402 | -9.893 | -4.79920 | -4.85270 | -14.96400 | -14.95700 | -.05350 | .00700 | .00000 |
| 1.401 | -5.969 | -9.7980 | -9.6780 | -11.01000 | -10.91700 | .01200 | .09280 | .00000 |
| 1.401 | -3.967 | .95020 | .97900 | -8.90910 | -8.88780 | .02880 | .02130 | .00000 |
| 1.403 | -1.990 | 2.97440 | 3.01470 | -7.00990 | -6.93940 | .04030 | .07050 | .00000 |
| 1.403 | .045 | 5.02550 | 4.91180 | -4.89110 | -4.86480 | -.11370 | .02630 | .00000 |
| 1.403 | 2.051 | 6.98130 | 6.96890 | -2.92060 | -2.82390 | -.01240 | .09670 | .00000 |
| 1.402 | 4.002 | 8.72360 | 9.19500 | -.95000 | -.95960 | .47140 | -.00960 | .00000 |
| 1.402 | 5.881 | 10.24900 | 11.20900 | 1.06810 | 1.00000 | .96010 | -.06810 | .00000 |
| 1.401 | 9.949 | 15.01500 | 15.03300 | 4.72280 | 5.02630 | .01800 | .30350 | .00000 |
| 1.401 | 14.761 | 19.75200 | 19.85300 | 9.42500 | 10.01400 | .10130 | .58900 | .00000 |
| | GRADIENT | .97879 | 1.02012 | 1.00142 | .99968 | .04133 | -.00174 | .00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1388

AMES 118-1-11 OAI45A 01

(02F055) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = 2.000
 AILRON = 5.000 BDFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 217/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| HACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|-----------|-----------|-----------|-----------|---------|---------|---------|
| 1.401 | -29.983 | -25.05800 | -25.04600 | -34.76600 | -35.06200 | .01220 | -.29540 | .04150 |
| 1.403 | -19.987 | -15.14000 | -14.95500 | -24.97000 | -24.88500 | .18560 | -.08540 | .03110 |
| 1.403 | -14.938 | -10.00000 | -9.92380 | -19.89600 | -19.93000 | .07640 | -.03390 | .03110 |
| 1.404 | -9.888 | -4.79920 | -4.86380 | -14.96400 | -14.92600 | -.06460 | .03790 | .03110 |
| 1.403 | -5.974 | -.98930 | -.97920 | -11.02100 | -10.90600 | .01070 | .11520 | .03110 |
| 1.403 | -3.965 | .95930 | .96880 | -8.89900 | -8.88780 | .00950 | .01120 | .03110 |
| 1.404 | -1.985 | 2.98470 | 3.02570 | -7.00000 | -6.94950 | .04100 | .05050 | .03110 |
| 1.403 | .033 | 5.02550 | 4.91180 | -4.93300 | -4.87400 | -.11370 | .05900 | .03110 |
| 1.403 | 2.039 | 6.95460 | 6.98300 | -2.92060 | -2.86140 | .02840 | .05920 | .02080 |
| 1.404 | 3.996 | 8.73910 | 9.20320 | -.98000 | -.97980 | .46410 | .00020 | .03110 |
| 1.403 | 6.119 | 11.22600 | 11.21800 | 1.03370 | 1.00000 | -.00760 | -.03370 | .03110 |
| 1.401 | 9.928 | 15.02500 | 15.01000 | 4.68320 | 4.99420 | -.01460 | .31100 | .03110 |
| 1.401 | 14.754 | 19.75200 | 19.83300 | 9.43380 | 9.99540 | .08150 | .56160 | .02080 |
| | GRADIENT | .97927 | 1.02401 | .99868 | .99804 | .04473 | -.00064 | -.00052 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1389

AMES 118-1-11 OAI45A 01

(02F056) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = -5.000 BETA = .000
 AILRON = 5.000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 234/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|-----------|-----------|-----------|-----------|---------|---------|---------|
| 1.198 | -29.975 | -25.04800 | -25.04600 | -34.73600 | -35.07100 | .00190 | -.33450 | .08310 |
| 1.208 | -19.987 | -15.14000 | -14.94400 | -24.98000 | -24.88500 | .19590 | .09490 | .08310 |
| 1.209 | -14.932 | -9.99040 | -9.91270 | -19.91600 | -19.90900 | .07770 | .00770 | .07270 |
| 1.206 | -9.891 | -4.78960 | -4.87490 | -14.97400 | -14.92600 | -.08530 | .04770 | .06230 |
| 1.206 | -5.972 | -.98970 | -.96780 | -11.03300 | -10.91700 | .00190 | .11520 | .06230 |
| 1.202 | -3.970 | .95930 | .98920 | -8.93940 | -8.88780 | .02990 | .05160 | .06230 |
| 1.204 | -1.985 | 2.98470 | 3.02570 | -7.00000 | -6.94950 | .04100 | .05050 | .06230 |
| 1.202 | .052 | 5.02550 | 4.91180 | -4.86440 | -4.86480 | -.11370 | -.00040 | .06230 |
| 1.203 | 2.049 | 6.98130 | 6.96890 | -2.93040 | -2.82390 | -.01240 | .10650 | .05190 |
| 1.202 | 4.006 | 8.74690 | 9.22780 | -.96000 | -.98990 | .48090 | -.02990 | .06230 |
| 1.202 | 6.124 | 11.24300 | 11.20900 | 1.03370 | 1.01010 | -.03420 | .02360 | .06230 |
| 1.201 | 9.914 | 15.00600 | 15.03300 | 4.64360 | 4.97280 | .02760 | .32920 | .07270 |
| 1.201 | 14.858 | 20.03800 | 20.07100 | 9.32920 | 9.99540 | .03300 | .66620 | .06230 |
| | GRADIENT | .97941 | 1.02152 | 1.00218 | .99687 | .04211 | -.00531 | -.00053 |

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0A145 TABULATED FORCE DATA

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AMES 118-1-11 0A145A 01

(02F057) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6600 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = -11.700
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

PARAMETRIC DATA

RUN NO. 297/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|--------|--------|--------|--------|---------|--------|---------|
| .599 | -5.042 | .02550 | .01020 | .00000 | .01980 | -.01530 | .01980 | -.06110 |
| .600 | -.075 | .02550 | .01020 | .00000 | .00990 | -.01530 | .00990 | -.03060 |
| .598 | 2.467 | .02550 | .01020 | .00000 | .00000 | -.01530 | .00000 | -.01020 |
| .597 | 4.965 | .02550 | .01020 | .00000 | .01980 | -.01530 | .01980 | -.01020 |
| .597 | 5.983 | .02550 | .01020 | .00000 | .01980 | -.01530 | .01980 | .01040 |
| .597 | 7.021 | .02550 | .01020 | .00000 | .01980 | -.01530 | .01980 | -.02040 |
| .598 | 8.054 | .01700 | .01020 | .00000 | .01980 | -.00680 | .01980 | -.03060 |
| .597 | 9.063 | .01700 | .01020 | .00000 | .01980 | -.00680 | .01980 | -.04080 |
| .598 | 10.095 | .01700 | .01020 | .00000 | .01980 | -.01700 | .01980 | -.04080 |
| .597 | 11.136 | .01700 | .00000 | .00000 | .01980 | -.01700 | .01980 | -.04080 |
| .597 | 12.178 | .01700 | .00000 | .00000 | .01980 | -.01700 | .01980 | -.04080 |
| .538 | 13.183 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -.02040 |
| .537 | 15.225 | .01700 | .00000 | .00000 | .01980 | -.01700 | .01980 | -.04080 |
| GRADIENT | | .00000 | .00000 | .00000 | .00195 | .00000 | .00195 | .00406 |

RUN NO. 291/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|--------|--------|--------|--------|--------|---------|---------|
| .799 | -5.060 | .00000 | .02040 | .02300 | .01980 | .02040 | -.00320 | -.05100 |
| .800 | -.091 | .00000 | .02040 | .02300 | .01980 | .02040 | -.00320 | -.05100 |
| .799 | 2.433 | .00000 | .02040 | .02300 | .01980 | .02040 | -.00320 | -.07130 |
| .798 | 4.967 | .00000 | .02040 | .02300 | .02970 | .02040 | .00670 | -.08150 |
| .798 | 5.995 | .00000 | .02040 | .02300 | .02970 | .02040 | .00670 | -.07130 |
| .798 | 7.044 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.08150 |
| .798 | 8.056 | .00000 | .01020 | .02300 | .02970 | .01020 | .00670 | -.07130 |
| .800 | 9.100 | .00000 | .01020 | .02300 | .02970 | .01020 | .00670 | -.07130 |
| .797 | 10.098 | .00000 | .01020 | .02300 | .02970 | .01020 | .00670 | -.06110 |
| .798 | 11.150 | .00000 | .01020 | .02300 | .01980 | .01020 | -.00320 | -.06110 |
| .796 | 12.156 | .00000 | .01020 | .02300 | .01980 | .01020 | -.00320 | -.06110 |
| .797 | 13.199 | .00000 | .01020 | .02300 | .01980 | .01020 | -.00320 | -.05100 |
| .798 | 15.246 | .00000 | .01020 | .02300 | .01980 | .01020 | -.00320 | -.05100 |
| GRADIENT | | .00000 | .00000 | .00000 | .00196 | .00000 | .00196 | -.00603 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8100 INCHES YMRP = .0000 IN. Y0
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
SCALE = 0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = -11.700
SPOBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 288/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|--------|--------|---------|--------|--------|---------|---------|
| .901 | -5.079 | .00000 | .03060 | .03450 | .01980 | .03060 | -.01470 | .08310 |
| .901 | -1.102 | .00000 | .02040 | .03450 | .01980 | .02040 | -.01470 | .11420 |
| .899 | 2.461 | .00000 | .02040 | .03450 | .01980 | .02040 | -.01470 | .08310 |
| .896 | 5.000 | .00000 | .02040 | .03450 | .01980 | .02040 | -.01470 | .04150 |
| .899 | 6.016 | .00000 | .02040 | .03450 | .01980 | .02040 | -.01470 | .02080 |
| .899 | 7.047 | .00000 | .02040 | .03450 | .02970 | .02040 | -.00480 | .02080 |
| .898 | 8.076 | .00000 | .02040 | .02300 | .01980 | .02040 | -.00320 | .03110 |
| .899 | 9.148 | .00000 | .02040 | .02300 | .01980 | .02040 | -.00320 | .04150 |
| .899 | 10.118 | .00000 | .02040 | .02300 | .01980 | .02040 | -.00320 | .09340 |
| .897 | 11.189 | .00850 | .02040 | .02300 | .01980 | .01190 | -.00320 | .12460 |
| .899 | -12.200 | .00000 | .01020 | .03450 | .02970 | .01020 | -.00480 | .17650 |
| .897 | 13.239 | .00000 | .02040 | .02300 | .01980 | .02040 | -.00320 | .24920 |
| .903 | 15.258 | .00000 | .01020 | .03450 | .01980 | .01020 | -.01470 | .32190 |
| GRADIENT | | .00000 | .00000 | -.00000 | .00000 | .00000 | .00000 | -.01214 |

RUN NO. 282/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|--------|---------|---------|--------|---------|---------|
| .952 | -5.075 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | -.01020 |
| .952 | -0.068 | .00850 | .02040 | .01150 | .02970 | .01190 | .01820 | .00000 |
| .950 | 2.467 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | .05190 |
| .946 | 5.034 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | .00000 |
| .949 | 6.022 | .00000 | .02040 | .00000 | .01980 | .02040 | .01980 | .02080 |
| .948 | 7.066 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | .04150 |
| .947 | 8.086 | .00850 | .02040 | .01150 | .02970 | .01190 | .00830 | .07270 |
| .954 | 9.110 | .00850 | .01020 | .01150 | .01980 | .00170 | .01820 | .15590 |
| .944 | 10.250 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | .07270 |
| .945 | 11.198 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | .13500 |
| .946 | 12.192 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | -.01020 |
| .947 | 13.209 | .00850 | .02040 | .01150 | .01980 | .01190 | .00830 | -.11210 |
| .951 | 15.291 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | -.12230 |
| GRADIENT | | -.00335 | .00000 | -.00000 | -.00391 | .00335 | -.00391 | .02047 |

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OAI45 TABULATED FORCE DATA

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(02F057) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO BETA = .000 ELEVON = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BOFLAP = -11.700
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPOBRK = 25.000 RUDDER = .000
 SCALE = .0500

PARAMETRIC DATA

RUN NO. 315/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|
| 1.099 | -5.095 | .0340 | .0306 | .0115 | .0190 | -.0034 | .0083 | -.0611 |
| 1.109 | .016 | .0255 | .0102 | .0115 | .0190 | -.0153 | .0083 | -.0611 |
| 1.102 | 2.492 | .0255 | .0204 | .0115 | .0190 | -.0051 | .0083 | -.0510 |
| 1.098 | 3.017 | .0255 | .0204 | .0115 | .0190 | -.0051 | .0083 | -.0510 |
| 1.094 | 5.104 | .0255 | .0204 | .0115 | .0190 | -.0051 | .0083 | -.0510 |
| 1.097 | 6.188 | .0255 | .0204 | .0115 | .0297 | -.0051 | .0182 | -.0611 |
| 1.100 | 7.104 | .0255 | .0204 | .0115 | .0190 | -.0051 | .0083 | -.0713 |
| 1.099 | 8.134 | .0170 | .0204 | .0115 | .0190 | .0034 | .0083 | -.0713 |
| 1.098 | 9.148 | .0255 | .0204 | .0115 | .0190 | -.0051 | .0083 | -.0815 |
| 1.096 | 10.202 | .0255 | .0204 | .0115 | .0190 | -.0051 | .0083 | -.0815 |
| 1.097 | 11.192 | .0340 | .0204 | .0115 | .0190 | -.0136 | .0083 | -.0917 |
| 1.097 | 12.240 | .0255 | .0204 | .0000 | .0190 | -.0051 | .0190 | -.0917 |
| 1.097 | 13.301 | .0255 | .0204 | .0115 | .0190 | -.0051 | .0083 | -.0917 |
| 1.097 | 15.365 | .0170 | .0102 | .0115 | .0190 | -.0068 | .0083 | -.0917 |
| 1.091 | GRADIENT | -.0000 | .00362 | .0000 | .0000 | .00362 | -.0000 | .00359 |

RUN NO. 314/ 0 RN/L = 5.12 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|--------|--------|--------|--------|-------|--------|
| 1.200 | -5.143 | .0255 | .0204 | .0115 | .0190 | -.0051 | .0083 | -.0510 |
| 1.200 | -.059 | .0255 | .0204 | .0115 | .0190 | -.0051 | .0083 | -.0611 |
| 1.198 | 2.851 | .0170 | .0204 | .0115 | .0190 | .0034 | .0083 | -.0611 |
| 1.196 | 5.053 | .0255 | .0204 | .0115 | .0190 | -.0051 | .0083 | -.0611 |
| 1.197 | 6.078 | .0255 | .0204 | .0115 | .0190 | -.0051 | .0083 | -.0510 |
| 1.198 | 7.079 | .0255 | .0204 | .0115 | .0190 | -.0051 | .0083 | -.0510 |
| 1.198 | 8.146 | .0255 | .0204 | .0115 | .0190 | -.0051 | .0083 | -.0611 |
| 1.198 | 9.235 | .0255 | .0204 | .0115 | .0190 | -.0051 | .0083 | -.0611 |
| 1.197 | 10.335 | .0255 | .0204 | .0115 | .0190 | -.0051 | .0083 | -.0713 |
| 1.195 | 11.245 | .0255 | .0102 | .0115 | .0190 | -.0153 | .0083 | -.0815 |
| 1.195 | 12.262 | .0255 | .0102 | .0115 | .0190 | -.0153 | .0083 | -.0815 |
| 1.197 | 13.283 | .0255 | .0102 | .0000 | .0190 | -.0153 | .0083 | -.0917 |
| 1.197 | 15.391 | .0255 | .0102 | .0115 | .0190 | -.0153 | .0083 | -.0917 |
| 1.191 | GRADIENT | -.00292 | -.0000 | .0000 | -.0000 | .00292 | .0000 | .0000 |

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OAI45 TABULATED FORCE DATA

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(D2F057) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = -11.700
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 306/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|---------|---------|---------|---------|--------|
| 1.296 | -5.118 | .01700 | .02040 | .02300 | .01980 | .00340 | -.00320 | .05190 |
| 1.300 | -.074 | .01700 | .02040 | .02300 | .01980 | .00340 | -.00320 | .06230 |
| 1.296 | 2.498 | .00850 | .01020 | .02300 | .01980 | .00170 | -.00320 | .06230 |
| 1.294 | 5.076 | .01700 | .01020 | .02300 | .01980 | -.00680 | -.00320 | .07270 |
| 1.295 | 6.134 | .01700 | .01020 | .02300 | .01980 | -.00680 | -.00320 | .07270 |
| 1.294 | 7.113 | .01700 | .01020 | .02300 | .01980 | -.00680 | -.00320 | .07270 |
| 1.295 | 8.165 | .01700 | .01020 | .02300 | .01980 | -.00680 | -.00320 | .07270 |
| 1.294 | 9.179 | .01700 | .01020 | .02300 | .01980 | -.00680 | -.00320 | .07270 |
| 1.294 | 10.237 | .00850 | .01020 | .02300 | .01980 | .00170 | -.00320 | .07270 |
| 1.294 | 11.266 | .01700 | .01020 | .02300 | .01980 | -.00680 | -.00320 | .07270 |
| 1.294 | 12.303 | .01700 | .01020 | .02300 | .01980 | -.00680 | -.00320 | .07270 |
| 1.292 | 13.351 | .01700 | .01020 | .02300 | .02970 | -.00680 | -.00480 | .05190 |
| 1.290 | 15.414 | .01700 | .01020 | .02300 | .02970 | -.00680 | -.00670 | .05190 |
| | GRADIENT | -.00330 | -.00397 | -.00000 | -.00000 | -.00066 | .00000 | .00000 |

RUN NO. 301/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|--------|--------|---------|--------|
| 1.401 | -5.082 | .00850 | .03060 | .01150 | .01980 | .02210 | .00830 | .00000 |
| 1.403 | -.042 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | .00000 |
| 1.400 | 2.597 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | .00000 |
| 1.400 | 5.039 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | .00000 |
| 1.402 | 6.052 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | .00000 |
| 1.402 | 7.074 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | .00000 |
| 1.401 | 8.104 | .00000 | .01020 | .01150 | .00990 | .01020 | .00160 | .00000 |
| 1.400 | 9.123 | .00000 | .00000 | .01150 | .00990 | .00000 | -.00160 | .00000 |
| 1.400 | 10.165 | .00000 | .00000 | .01150 | .01980 | .00000 | .00830 | .00000 |
| 1.399 | 11.191 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | .00000 |
| 1.399 | 12.230 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | .00000 |
| 1.398 | 13.268 | .00000 | .00000 | .01150 | .01980 | .00000 | .00830 | .00000 |
| 1.393 | 15.334 | .00000 | .00000 | .01150 | .00990 | .00000 | -.00160 | .00000 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | -.00000 | .00000 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

AMES 118-1-11 OAI45A 01

(02F058) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = 16.300
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 298/ 0 RN/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|--------|--------|--------|---------|---------|---------|
| .598 | -5.019 | .01700 | .02040 | .02300 | .02970 | .00340 | .00670 | -.07130 |
| .598 | - .051 | .01700 | .02040 | .02300 | .01980 | .00340 | -.00320 | -.05100 |
| .597 | 2.496 | .01700 | .02040 | .02300 | .01980 | .00340 | -.00320 | -.05100 |
| .596 | 5.000 | .01700 | .02040 | .01150 | .01980 | .00340 | .00830 | -.04080 |
| .598 | 6.008 | .01700 | .02040 | .00000 | .01980 | .00340 | .01980 | -.04080 |
| .597 | 7.047 | .01700 | .01020 | .00000 | .01980 | -.00680 | .01980 | -.03060 |
| .598 | 8.082 | .01700 | .01020 | .00000 | .01980 | -.00680 | .01980 | -.05100 |
| .597 | 9.085 | .01700 | .02040 | .00000 | .01980 | .00340 | .01980 | -.05100 |
| .597 | 10.121 | .01700 | .02040 | .00000 | .01980 | .00680 | .01980 | -.05100 |
| .598 | 11.160 | .01700 | .01020 | .00000 | .01980 | -.00680 | .00990 | -.05100 |
| .597 | 12.208 | .00850 | .01020 | .00000 | .00990 | .00170 | .00990 | -.05100 |
| .597 | 13.160 | .02550 | .01020 | .00000 | .01980 | -.01530 | .01980 | -.04080 |
| .596 | 15.194 | .02550 | .01020 | .00000 | .01980 | -.01530 | .01980 | -.04080 |
| GRADIENT | | -.00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 |

RUN NO. 292/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|--------|--------|---------|---------|--------|---------|---------|
| .799 | -5.064 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | -.03060 |
| .800 | - .044 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | -.02040 |
| .797 | 2.462 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | -.03060 |
| .797 | 4.978 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | -.02040 |
| .798 | 6.012 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | -.02040 |
| .799 | 7.029 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | -.03060 |
| .799 | 8.082 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | -.04080 |
| .799 | 9.116 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | -.04080 |
| .798 | 10.118 | .00850 | .02040 | .01150 | .01980 | .01190 | .00830 | -.05100 |
| .800 | 11.150 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.03060 |
| .798 | 12.186 | .00000 | .00000 | .02300 | .01980 | .00000 | -.00320 | -.03060 |
| .796 | 13.204 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | -.04080 |
| .797 | 15.250 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.04080 |
| GRADIENT | | .00000 | .00000 | -.00000 | -.00000 | .00000 | .00000 | .00000 |

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0A145 TABULATED FORCE DATA

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AMES 118-1-11 0A145A 01

(02F058) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BOFLAP = 16.300
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 289/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|---------|--------|--------|---------|---------|
| .901 | -5.072 | .00000 | .01020 | .02300 | .01980 | .01020 | -.00320 | .08310 |
| .901 | -.099 | .00000 | .02040 | .02300 | .02970 | .02040 | .00670 | -.01020 |
| .899 | 2.472 | .00000 | .02040 | .02300 | .02970 | .02040 | .00670 | -.04080 |
| .897 | 5.009 | .00000 | .02040 | .03450 | .02970 | .02040 | -.00480 | -.05100 |
| .899 | 6.039 | .00000 | .02040 | .02300 | .01980 | .02040 | -.00320 | -.05100 |
| .899 | 7.084 | .00000 | .02040 | .02300 | .01980 | .02040 | -.00320 | -.06110 |
| .900 | 8.095 | .00000 | .02040 | .02300 | .01980 | .02040 | -.00320 | -.05100 |
| .896 | 9.111 | .00000 | .02040 | .02300 | .01980 | .02040 | -.00320 | -.06110 |
| .898 | 10.162 | .00850 | .02040 | .02300 | .01980 | .01190 | -.00320 | -.04080 |
| .900 | 11.171 | .00000 | .02040 | .02300 | .01980 | .02040 | -.00320 | -.02040 |
| .898 | 12.173 | .00000 | .02040 | .02300 | .00990 | .02040 | -.01310 | -.01020 |
| .898 | 13.216 | .00000 | .02040 | .02300 | .01980 | .02040 | -.00320 | .02080 |
| .899 | 15.298 | .00000 | .01020 | .02300 | .01980 | .01020 | -.00320 | .04150 |
| | GRADIENT | .00000 | .00000 | -.00000 | .00000 | .00000 | .00000 | -.01190 |

RUN NO. 284/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|---------|---------|--------|--------|---------|
| .947 | -5.067 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | .08310 |
| .950 | -.049 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | .10360 |
| .954 | 2.490 | .00000 | .03060 | .01150 | .02970 | .03060 | .01820 | .04150 |
| .953 | 5.028 | .00000 | .03060 | .01150 | .02970 | .03060 | .01820 | .00000 |
| .949 | 6.048 | .01700 | .03060 | .01150 | .01980 | .01360 | .00830 | .00000 |
| .950 | 7.068 | .01700 | .03060 | .01150 | .02970 | .01360 | .01820 | .00000 |
| .948 | 8.068 | .00850 | .02040 | .01150 | .02970 | .01190 | .01820 | .00000 |
| .947 | 9.129 | .00850 | .03060 | .00000 | .02970 | .02210 | .02970 | .02080 |
| .947 | 10.186 | .00850 | .03060 | .01150 | .01980 | .02210 | .00830 | .10360 |
| .947 | 11.167 | .00850 | .02040 | .01150 | .01980 | .01190 | .00830 | .16610 |
| .949 | 12.201 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | .12460 |
| .949 | 13.233 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | .08310 |
| .951 | 15.300 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | .06230 |
| | GRADIENT | .00000 | .00402 | -.00000 | -.00000 | .00402 | .00000 | -.02454 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1396

AMES 118-1-11 OAI45A 01

(D2F058) (15 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = 16.300
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 316/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|---------|---------|--------|---------|--------|---------|
| 1.103 | -5.098 | .02550 | .02040 | .01150 | .01980 | -.00510 | .00830 | -.08150 |
| 1.107 | -.091 | .02550 | .02040 | .01150 | .01980 | -.00510 | .00830 | -.08150 |
| 1.096 | 2.766 | .02550 | .02040 | .01150 | .01980 | -.00510 | .00830 | -.09170 |
| 1.095 | 5.030 | .02550 | .02040 | .01150 | .01980 | -.00510 | .00830 | -.08150 |
| 1.099 | 6.091 | .02550 | .02040 | .01150 | .01980 | -.00510 | .00830 | -.08150 |
| 1.098 | 7.179 | .02550 | .02040 | .01150 | .01980 | -.00510 | .00830 | -.09170 |
| 1.097 | 8.147 | .01700 | .02040 | .01150 | .01980 | .00340 | .00830 | -.09170 |
| 1.097 | 9.172 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -.10190 |
| 1.093 | 10.209 | .02550 | .02040 | .01150 | .01980 | -.00510 | .00830 | -.10190 |
| 1.098 | 11.262 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.10190 |
| 1.098 | 12.315 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -.10190 |
| 1.096 | 13.381 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -.11210 |
| 1.092 | 15.350 | .02550 | .01020 | .00000 | .01980 | -.01530 | .01980 | -.11210 |
| | GRADIENT | .00000 | -.00000 | -.00000 | .00000 | .00000 | .00000 | -.00357 |

RUN NO. 313/ 0 RN/L = 5.16 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|---------|---------|--------|---------|--------|---------|
| 1.201 | -5.068 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -.04080 |
| 1.203 | -.038 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -.04080 |
| 1.200 | 2.513 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -.04080 |
| 1.198 | 5.052 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -.04080 |
| 1.197 | 6.059 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.05100 |
| 1.197 | 7.102 | .02550 | .01020 | .00000 | .01980 | -.01530 | .01980 | -.06110 |
| 1.198 | 8.130 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -.09170 |
| 1.195 | 9.159 | .02550 | .01020 | .00000 | .01980 | -.01530 | .01980 | -.07130 |
| 1.197 | 10.250 | .02550 | .01020 | .00000 | .01980 | -.01530 | .01980 | -.09170 |
| 1.199 | 11.322 | .02550 | .01020 | .03000 | .01980 | -.01530 | .01980 | -.08150 |
| 1.194 | 12.440 | .02550 | .01020 | .00000 | .01980 | -.01530 | .01980 | -.07130 |
| 1.197 | 13.320 | .02550 | .01020 | .00000 | .01980 | -.01530 | .01980 | -.07130 |
| 1.192 | 15.345 | .02550 | .01020 | .00000 | .01980 | -.01530 | .01980 | -.08150 |
| | GRADIENT | .00000 | -.00000 | -.00000 | .00000 | .00000 | .00000 | .00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1397

AMES 118-1-11 OAI45A 01

(02F058) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = 16.300
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 307/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|---------|--------|--------|---------|--------|
| 1.299 | -5.093 | .01700 | .02040 | .03450 | .02970 | .00340 | -.00480 | .05190 |
| 1.299 | -.042 | .00000 | .01020 | .03450 | .01980 | .01020 | -.01470 | .05190 |
| 1.295 | 2.532 | .00000 | .01020 | .02300 | .02970 | .01020 | .00670 | .06230 |
| 1.293 | 5.066 | .00850 | .01020 | .02300 | .01980 | .00170 | -.00320 | .06230 |
| 1.294 | 6.082 | .00850 | .01020 | .03450 | .01980 | .00170 | -.01470 | .07270 |
| 1.294 | 7.142 | .00850 | .01020 | .03450 | .01980 | .00170 | -.01470 | .07270 |
| 1.294 | 8.128 | .00850 | .01020 | .02300 | .02970 | .00170 | -.00320 | .07270 |
| 1.294 | 9.137 | .00850 | .01020 | .03450 | .02970 | .00170 | -.00480 | .07270 |
| 1.294 | 10.240 | .00000 | .01020 | .02300 | .02970 | .01020 | .00670 | .06230 |
| 1.293 | 11.234 | .00000 | .01020 | .03450 | .01980 | .01020 | -.01470 | .07270 |
| 1.293 | 12.279 | .00000 | .01020 | .03450 | .02970 | .01020 | -.00480 | .07270 |
| 1.292 | 13.354 | .00000 | .01020 | .03450 | .02970 | .01020 | -.00480 | .06230 |
| 1.288 | 15.409 | .00850 | .01020 | .03450 | .02970 | .00170 | -.00480 | .06230 |
| | GRADIENT | .00000 | .00000 | -.00447 | .00385 | .00000 | .00831 | .00404 |

RUN NO. 302/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|---------|---------|---------|---------|
| 1.402 | -5.071 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | -.06110 |
| 1.403 | -.039 | .04040 | .02040 | .01150 | .01980 | .06080 | .00830 | .10380 |
| 1.400 | 2.490 | .00850 | .02040 | .01150 | .00990 | .01190 | -.00160 | .04150 |
| 1.398 | 5.030 | .01700 | .02040 | .01150 | .00990 | .00340 | -.00160 | .04150 |
| 1.400 | 6.066 | .01700 | .01020 | .01150 | .00990 | -.00680 | -.00160 | .04150 |
| 1.399 | 7.067 | .01700 | .02040 | .01150 | .00990 | .00340 | -.00160 | .05190 |
| 1.399 | 8.113 | .00850 | .01020 | .01150 | .00990 | .00170 | -.00160 | .05190 |
| 1.399 | 9.153 | .00850 | .01020 | .01150 | .00990 | .00170 | -.00160 | .05190 |
| 1.397 | 10.176 | .00850 | .02040 | .01150 | .00990 | .00170 | -.00160 | .04150 |
| 1.397 | 11.212 | .00850 | .01020 | .01150 | .00990 | .00170 | -.00160 | .04150 |
| 1.396 | 12.266 | .00850 | .01020 | .01150 | .00990 | .00170 | -.00160 | .04150 |
| 1.392 | 13.306 | .00850 | .00000 | .01150 | .00990 | -.00850 | .00830 | .02080 |
| 1.387 | 15.338 | .00850 | .00000 | .01150 | .00990 | -.00850 | -.00160 | .00000 |
| | GRADIENT | .01934 | .00000 | .00000 | -.00391 | -.01934 | -.00391 | -.02463 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(02F059) (16 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = 22.500
 SPCBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 299/ 0 RN/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|--------|---------|--------|---------|
| .598 | -5.030 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.07130 |
| .598 | -.067 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.09170 |
| .597 | 2.488 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.06110 |
| .595 | 4.989 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.06110 |
| .597 | 5.997 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.05100 |
| .597 | 7.038 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.05100 |
| .598 | 8.067 | .00850 | .01320 | .00000 | .01980 | -.00170 | .01980 | -.05100 |
| .598 | 9.073 | .00850 | .00300 | .01150 | .01980 | -.00850 | .00830 | -.06110 |
| .597 | 10.111 | .00850 | .00200 | .01150 | .01980 | -.01700 | .00830 | -.07130 |
| .597 | 11.121 | .01700 | .00000 | .00000 | .00990 | -.01700 | .00990 | -.04080 |
| .597 | 12.152 | .01700 | .01020 | .00000 | .00990 | -.00680 | .00990 | -.06110 |
| .597 | 13.162 | .01700 | .00000 | .00000 | .01980 | -.01700 | .01980 | -.03060 |
| .597 | 15.210 | .01700 | .00000 | .00000 | .00000 | .00000 | .00000 | .00607 |
| .597 | GRADIENT | -.00000 | -.00000 | -.00000 | .00000 | .00000 | .00000 | |

PUN NO. 293/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|---------|---------|---------|---------|--------|---------|
| .799 | -5.060 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.03060 |
| .801 | -.065 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.06110 |
| .799 | 2.448 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.06110 |
| .796 | 4.974 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.05100 |
| .798 | 6.014 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.06110 |
| .800 | 7.023 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -.06110 |
| .799 | 8.078 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.05100 |
| .800 | 9.113 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.04080 |
| .797 | 10.111 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.05100 |
| .799 | 11.158 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -.04080 |
| .797 | 12.158 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.05100 |
| .798 | 13.200 | .00000 | .00000 | .01150 | .01980 | .00000 | .00830 | -.05100 |
| .800 | 15.245 | .00850 | .01020 | .01150 | .00990 | .00170 | .00160 | -.04080 |
| .800 | GRADIENT | .00000 | -.00000 | -.00000 | -.00000 | -.00000 | .00000 | .00201 |

(02F059) (16 JUL 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = 22.500
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 317/ 0 RN/L = 5.04

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|--------|---------|--------|---------|
| 1.103 | -5.140 | .02550 | .02040 | .01150 | .01980 | -.00510 | .00830 | -.10190 |
| 1.107 | -.050 | .02550 | .02040 | .01150 | .01980 | -.00510 | .00830 | -.10190 |
| 1.095 | 2.518 | .02550 | .02040 | .01150 | .01980 | -.00510 | .00830 | -.10190 |
| 1.094 | 5.049 | .02550 | .02040 | .01150 | .01980 | -.00510 | .00830 | -.10190 |
| 1.098 | 6.069 | .01700 | .02040 | .01150 | .01980 | -.00340 | .00830 | -.09170 |
| 1.098 | 7.146 | .02550 | .02040 | .01150 | .01980 | -.00510 | .00830 | -.10190 |
| 1.097 | 8.122 | .01700 | .02040 | .01150 | .01980 | -.00340 | .00830 | -.10190 |
| 1.097 | 9.137 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -.11210 |
| 1.035 | 10.242 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -.11210 |
| 1.096 | 11.215 | .01700 | .01020 | .00000 | .01980 | -.00680 | .01980 | -.12230 |
| 1.097 | 12.258 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00330 | -.12230 |
| 1.098 | 13.284 | .02550 | .01020 | .00000 | .01980 | -.01530 | .01980 | -.12230 |
| 1.098 | 15.358 | .00850 | .01020 | .01150 | .01980 | -.00170 | .00830 | -.12230 |
| 1.092 | GRADIENT | .00000 | .00000 | .00000 | .00000 | -.00000 | .00000 | .00000 |

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 311/ 0 RN/L = 5.06

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|---------|---------|---------|---------|
| 1.202 | -5.109 | .02550 | .02040 | .03450 | .00990 | -.00510 | -.02460 | .09340 |
| 1.207 | -.018 | .00850 | .01020 | .03450 | .01980 | .00170 | -.01470 | .09340 |
| 1.199 | 2.494 | .00850 | .01020 | .03450 | .01980 | .00170 | -.01470 | .09340 |
| 1.195 | 5.038 | .00850 | .01020 | .02300 | .01980 | .00170 | -.00320 | .09340 |
| 1.197 | 6.068 | .00850 | .01020 | .03450 | .01980 | .00170 | -.01470 | .10380 |
| 1.201 | 7.101 | .00850 | .01020 | .02300 | .01980 | .00170 | -.00320 | .10380 |
| 1.199 | 8.155 | .01700 | .01020 | .03450 | .01980 | -.00680 | -.01470 | .10380 |
| 1.197 | 9.187 | .01700 | .01020 | .03450 | .01980 | -.00680 | -.01470 | .10380 |
| 1.198 | 10.198 | .01700 | .01020 | .03450 | .01980 | -.00680 | -.01470 | .10380 |
| 1.200 | 11.226 | .01700 | .01020 | .03450 | .01980 | -.00680 | -.01470 | .10380 |
| 1.197 | 12.301 | .01700 | .01020 | .03450 | .01980 | -.00680 | -.01470 | .10380 |
| 1.196 | 13.302 | .00850 | .01020 | .02300 | .01980 | .00170 | -.00320 | .09340 |
| 1.194 | 15.433 | .01700 | .00000 | .02300 | .01980 | -.01700 | -.00320 | .10380 |
| 1.194 | GRADIENT | .00000 | .00000 | .00000 | -.00000 | .00000 | .00000 | -.00000 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = 22.500
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 308/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|--------|--------|--------|---------|---------|--------|
| 1.298 | -5.083 | .00850 | .02040 | .03450 | .02970 | .01190 | -.00480 | .05190 |
| 1.305 | -.037 | -.02020 | .01020 | .03450 | .02970 | .03040 | -.00480 | .05190 |
| 1.297 | 2.522 | .00000 | .01020 | .03450 | .02970 | .01020 | -.00480 | .06230 |
| 1.293 | 5.089 | .00000 | .01020 | .03450 | .02970 | .01020 | -.00480 | .05190 |
| 1.294 | 6.101 | .00000 | .01020 | .03450 | .02970 | .01020 | -.00480 | .06230 |
| 1.294 | 7.159 | .00000 | .01020 | .03450 | .02970 | .01020 | -.00480 | .06230 |
| 1.295 | 8.166 | .00000 | .01020 | .03450 | .01980 | .01020 | -.01470 | .06230 |
| 1.294 | 9.186 | .00000 | .01020 | .03450 | .02970 | .01020 | -.00480 | .06230 |
| 1.294 | 10.218 | .00000 | .01020 | .03450 | .02970 | .01020 | -.00480 | .06230 |
| 1.293 | 11.275 | .00000 | .01020 | .04590 | .01980 | .01020 | -.02610 | .06230 |
| 1.293 | 12.316 | .00000 | .01020 | .04590 | .02970 | .01020 | -.01620 | .05190 |
| 1.293 | 13.324 | .00000 | .01020 | .03450 | .02970 | .01020 | -.00480 | .05190 |
| 1.291 | 15.371 | .00000 | .01020 | .04590 | .02970 | .01020 | -.01620 | .05190 |
| | GRADIENT | .00790 | .00000 | .00000 | .00000 | -.00790 | .00000 | .00407 |

RUN NO. 303/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|---------|---------|--------|---------|---------|--------|
| 1.404 | -5.086 | .01700 | .02040 | .01150 | .00990 | .00340 | -.00160 | .00000 |
| 1.409 | -.045 | .00850 | .01020 | .01150 | .00990 | .00170 | -.00160 | .00000 |
| 1.405 | 2.526 | .00850 | .01020 | .01150 | .00990 | .00170 | -.00160 | .00000 |
| 1.400 | 5.035 | .00850 | .01020 | .01150 | .00990 | .00170 | -.00160 | .00000 |
| 1.400 | 6.054 | .00850 | .01020 | .01150 | .00990 | .00170 | -.00160 | .00000 |
| 1.400 | 7.076 | .00850 | .00000 | .01150 | .00990 | -.00850 | -.00160 | .00000 |
| 1.400 | 8.114 | .00850 | .00000 | .01150 | .00990 | -.00850 | -.00160 | .00000 |
| 1.399 | 9.154 | .00000 | .00000 | .01150 | .00990 | .00000 | -.00160 | .00000 |
| 1.398 | 10.154 | .00000 | .00000 | .01150 | .00990 | .00000 | -.00160 | .00000 |
| 1.397 | 11.202 | .00850 | .00000 | .01150 | .00990 | -.00850 | -.00160 | .00000 |
| 1.393 | 12.303 | .00850 | .00000 | .01150 | .00990 | -.00850 | -.00160 | .00000 |
| 1.392 | 13.296 | .00850 | .00000 | .01150 | .00990 | -.00850 | -.00160 | .00000 |
| 1.386 | 15.336 | .00000 | .00000 | .01150 | .00990 | .00000 | -.00160 | .00000 |
| | GRADIENT | .00000 | -.00000 | -.00000 | .00000 | .00000 | .00000 | .00000 |

(02F060) (16 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AIRLON = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 296/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BOFLAP | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|--------|--------|--------|---------|--------|---------|
| .598 | -11.642 | .01700 | .01020 | .00000 | .01980 | -.00680 | .01980 | .20770 |
| .599 | -7.950 | .01700 | .01020 | .00000 | .01980 | -.00680 | .01980 | -.02040 |
| .599 | -5.940 | .01700 | .01020 | .00000 | .01980 | -.00680 | .00830 | -.01020 |
| .599 | -3.931 | .01700 | .01020 | .00000 | .01980 | -.00680 | .01980 | -.01020 |
| .599 | -1.950 | .01700 | .01020 | .00000 | .01980 | -.00680 | .01980 | -.01020 |
| .599 | .020 | .01700 | .01020 | .00000 | .01980 | -.00680 | .01980 | -.02040 |
| .599 | 1.990 | .01700 | .01020 | .00000 | .01980 | -.00680 | .01980 | -.01020 |
| .599 | 4.020 | .01700 | .01020 | .00000 | .01980 | -.00680 | .01980 | -.02040 |
| .599 | 5.980 | .01700 | .00000 | .00000 | .01980 | -.01700 | .01980 | -.03060 |
| .599 | 7.970 | .01700 | .00000 | .00000 | .01980 | -.01700 | .01980 | -.02040 |
| .598 | 12.030 | .01700 | .00000 | .00000 | .01980 | -.01700 | .01980 | .00000 |
| .598 | 16.311 | .01700 | .00000 | .00000 | .01980 | -.01700 | .01980 | -.02040 |
| .598 | 22.505 | .01700 | .00000 | .00000 | .01980 | -.01700 | .01980 | -.02040 |
| .598 | GRADIENT | -.00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.00103 |

RUN NO. 294/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BOFLAP | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|---------|--------|---------|---------|
| .800 | -11.662 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | -.04080 |
| .800 | -7.950 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | -.04080 |
| .800 | -5.930 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | -.03060 |
| .800 | -3.940 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | -.04080 |
| .799 | -1.970 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | -.03060 |
| .800 | .010 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | -.04080 |
| .799 | 1.990 | .00000 | .02040 | .01150 | .00990 | .02040 | -.00160 | -.03060 |
| .800 | 4.000 | .00000 | .02040 | .01150 | .00990 | .02040 | -.00160 | -.02040 |
| .800 | 6.010 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | -.01020 |
| .800 | 7.960 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | -.02040 |
| .799 | 12.019 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | -.01020 |
| .800 | 16.301 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | -.01020 |
| .799 | 22.525 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | -.02040 |
| .799 | GRADIENT | .00000 | .00000 | .00000 | -.00200 | .00000 | -.00200 | .00206 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1403

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(02F060) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 SPDRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 287/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BOFLAP | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|-------|--------|--------|
| .900 | -11.652 | .0000 | .0204 | .0345 | .0198 | .0204 | -.0147 | .0000 |
| .901 | -7.940 | .0000 | .0204 | .0345 | .0198 | .0204 | -.0147 | .0000 |
| .900 | -5.940 | .0000 | .0204 | .0345 | .0198 | .0204 | -.0147 | .0000 |
| .901 | -3.940 | .0000 | .0204 | .0345 | .0198 | .0204 | -.0147 | .0104 |
| .900 | -1.960 | .0000 | .0102 | .0345 | .0198 | .0102 | -.0147 | .0000 |
| .901 | .020 | .0000 | .0102 | .0345 | .0198 | .0102 | -.0147 | .0000 |
| .900 | 1.990 | .0000 | .0102 | .0345 | .0198 | .0102 | -.0147 | .0208 |
| .900 | 4.000 | .0000 | .0204 | .0345 | .0198 | .0204 | -.0147 | .0104 |
| .901 | 6.000 | .0000 | .0204 | .0345 | .0198 | .0204 | -.0147 | .0104 |
| .900 | 7.970 | .0000 | .0204 | .0345 | .0198 | .0204 | -.0147 | .0104 |
| .900 | 12.030 | .0000 | .0204 | .0345 | .0198 | .0204 | -.0147 | .0000 |
| .899 | 16.311 | .0000 | .0102 | .0345 | .0198 | .0102 | -.0147 | .0000 |
| .901 | 22.505 | .0000 | .0204 | .0345 | .0198 | .0204 | -.0147 | .0000 |
| | GRADIENT | .0000 | .0000 | .0000 | .0000 | .0000 | -.0000 | .00105 |

RUN NO. 286/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BOFLAP | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|--------|---------|---------|
| .951 | -11.662 | .0170 | .0204 | .0345 | .0198 | .0034 | -.0147 | -.05100 |
| .952 | -7.940 | .0170 | .0204 | .0345 | .0198 | .0034 | -.0147 | -.07130 |
| .953 | -5.930 | .0170 | .0204 | .0345 | .0198 | .0034 | -.0147 | -.07130 |
| .950 | -3.950 | .0170 | .0204 | .0345 | .0198 | .0034 | -.0147 | -.06110 |
| .951 | -1.970 | .0170 | .0204 | .0345 | .0198 | .0034 | -.0147 | -.07130 |
| .951 | .030 | .0170 | .0204 | .0345 | .0198 | .0034 | -.0147 | -.06110 |
| .950 | 1.980 | .0170 | .0204 | .0459 | .0198 | .0034 | -.0261 | .21800 |
| .951 | 4.000 | .0170 | .0204 | .0459 | .0198 | .0034 | -.0261 | .24920 |
| .951 | 5.990 | .0170 | .0204 | .0459 | .0099 | .0034 | -.0360 | .03110 |
| .950 | 7.960 | .0170 | .0204 | .0459 | .0099 | .0034 | -.0360 | .03110 |
| .949 | 12.030 | .0170 | .0204 | .0459 | .0198 | .0034 | -.0261 | .02080 |
| .950 | 16.321 | .0170 | .0102 | .0459 | .0198 | -.0068 | -.0261 | .02080 |
| .950 | 22.505 | .0170 | .0204 | .0459 | .0198 | .0034 | -.0261 | .03110 |
| | GRADIENT | .0000 | .0000 | .00172 | .0000 | -.0000 | -.00172 | .04577 |

OAI145 TABULATED FORCE DATA

DATE 10 MAR 80

(02F060) (16 JUL 77)

AMES 118-1-11 OAI145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

| MACH | | RUN NO. 318/ 0 | | RN/L = 5.04 | | GRADIENT INTERVAL = -5.00/ 5.00 | | DELTA | | DRHL | |
|-------|----------|----------------|--------|-------------|--------|---------------------------------|--------|---------|--------|---------|--------|
| | | BOFLAP | | ELV-LO | | ELV-RO | | ELV-RI | | DELL | |
| 1.101 | -11.662 | 0.2550 | 0.2040 | 0.1150 | 0.1980 | 0.00510 | 0.0830 | 0.09170 | 0.0830 | 0.09170 | 0.0830 |
| 1.101 | -7.950 | 0.2550 | 0.2040 | 0.1150 | 0.1980 | 0.00510 | 0.0830 | 0.09170 | 0.0830 | 0.09170 | 0.0830 |
| 1.102 | -5.920 | 0.2550 | 0.2040 | 0.1150 | 0.1980 | 0.00510 | 0.0830 | 0.09170 | 0.0830 | 0.09170 | 0.0830 |
| 1.101 | -3.931 | 0.2550 | 0.2040 | 0.1150 | 0.1980 | 0.00510 | 0.0830 | 0.09170 | 0.0830 | 0.09170 | 0.0830 |
| 1.102 | -1.950 | 0.2550 | 0.2040 | 0.1150 | 0.1980 | 0.00510 | 0.0830 | 0.09170 | 0.0830 | 0.09170 | 0.0830 |
| 1.100 | .010 | 0.2550 | 0.2040 | 0.1150 | 0.1980 | 0.00510 | 0.0830 | 0.09170 | 0.0830 | 0.09170 | 0.0830 |
| 1.100 | 1.990 | 0.2550 | 0.2040 | 0.1150 | 0.1980 | 0.00510 | 0.0830 | 0.09170 | 0.0830 | 0.09170 | 0.0830 |
| 1.101 | 3.980 | 0.2550 | 0.2040 | 0.1150 | 0.1980 | 0.00510 | 0.0830 | 0.09170 | 0.0830 | 0.09170 | 0.0830 |
| 1.100 | 6.020 | 0.2550 | 0.2040 | 0.1150 | 0.1980 | 0.00510 | 0.0830 | 0.09170 | 0.0830 | 0.09170 | 0.0830 |
| 1.100 | 7.960 | 0.2550 | 0.2040 | 0.1150 | 0.1980 | 0.00510 | 0.0830 | 0.09170 | 0.0830 | 0.09170 | 0.0830 |
| 1.099 | 12.040 | 0.2550 | 0.2040 | 0.1150 | 0.1980 | 0.00510 | 0.0830 | 0.09170 | 0.0830 | 0.09170 | 0.0830 |
| 1.101 | 16.321 | 0.2550 | 0.2040 | 0.1150 | 0.1980 | 0.00510 | 0.0830 | 0.09170 | 0.0830 | 0.09170 | 0.0830 |
| 1.101 | 22.394 | 0.2550 | 0.2040 | 0.1150 | 0.1980 | 0.00510 | 0.0830 | 0.09170 | 0.0830 | 0.09170 | 0.0830 |
| 1.098 | GRADIENT | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

| MACH | | RUN NO. 310/ 0 | | RN/L = 5.05 | | GRADIENT INTERVAL = -5.00/ 5.00 | | DELTA | | DRHL | |
|-------|----------|----------------|---------|-------------|---------|---------------------------------|---------|---------|---------|---------|---------|
| | | BOFLAP | | ELV-LO | | ELV-RO | | ELV-RI | | DELL | |
| 1.202 | -11.662 | 0.1700 | 0.1020 | 0.0450 | 0.1980 | 0.00680 | 0.02610 | 0.08310 | 0.02610 | 0.08310 | 0.02610 |
| 1.201 | -7.950 | 0.1700 | 0.1020 | 0.0450 | 0.1980 | 0.00680 | 0.02610 | 0.08310 | 0.02610 | 0.08310 | 0.02610 |
| 1.202 | -5.940 | 0.1700 | 0.1020 | 0.0450 | 0.1980 | 0.00680 | 0.02610 | 0.08310 | 0.02610 | 0.08310 | 0.02610 |
| 1.201 | -3.950 | 0.1700 | 0.1020 | 0.0450 | 0.1980 | 0.00680 | 0.02610 | 0.08310 | 0.02610 | 0.08310 | 0.02610 |
| 1.201 | -1.950 | 0.1700 | 0.1020 | 0.0450 | 0.1980 | 0.00680 | 0.02610 | 0.08310 | 0.02610 | 0.08310 | 0.02610 |
| 1.199 | .010 | 0.1700 | 0.1020 | 0.0450 | 0.1980 | 0.00680 | 0.02610 | 0.08310 | 0.02610 | 0.08310 | 0.02610 |
| 1.201 | 1.990 | 0.1700 | 0.1020 | 0.0450 | 0.1980 | 0.00680 | 0.02610 | 0.08310 | 0.02610 | 0.08310 | 0.02610 |
| 1.201 | 4.010 | 0.1700 | 0.1020 | 0.0450 | 0.1980 | 0.00680 | 0.02610 | 0.08310 | 0.02610 | 0.08310 | 0.02610 |
| 1.201 | 6.020 | 0.1700 | 0.1020 | 0.0450 | 0.1980 | 0.00680 | 0.02610 | 0.08310 | 0.02610 | 0.08310 | 0.02610 |
| 1.202 | 7.980 | 0.1700 | 0.1020 | 0.0450 | 0.1980 | 0.00680 | 0.02610 | 0.08310 | 0.02610 | 0.08310 | 0.02610 |
| 1.199 | 12.030 | 0.1700 | 0.1020 | 0.0450 | 0.1980 | 0.00680 | 0.02610 | 0.08310 | 0.02610 | 0.08310 | 0.02610 |
| 1.201 | 16.321 | 0.1700 | 0.1020 | 0.0450 | 0.1980 | 0.00680 | 0.02610 | 0.08310 | 0.02610 | 0.08310 | 0.02610 |
| 1.201 | 22.374 | 0.1700 | 0.1020 | 0.0450 | 0.1980 | 0.00680 | 0.02610 | 0.08310 | 0.02610 | 0.08310 | 0.02610 |
| 1.200 | GRADIENT | 0.00128 | 0.00154 | 0.00000 | 0.00000 | 0.00282 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1405

AMES 118-1-11 0A145A 01

(02F060; (16 JUL 77)

REFERENCE DATA

| | | | | | | | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|-----|----|---|--------|--------|-------|------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. | XO | = | 5.000 | BETA | = | .000 |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. | YO | = | .000 | AILRON | = | .000 |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. | ZO | = | 25.000 | RUDDER | = | .000 |
| SCALE | = | .0500 | | | | | | | | RN/L | = | 5.000 | |

PARAMETRIC DATA

| MACH | BDFLAP | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|---------|--------|---------|--------|--------|---------|--------|
| 1.298 | -11.652 | .00000 | .01020 | .04590 | .02970 | .01020 | -.01620 | .06230 |
| 1.298 | -7.960 | .00000 | .01020 | .08040 | .02970 | .01020 | -.05070 | .06230 |
| 1.297 | -5.920 | .00000 | .01020 | .08040 | .02970 | .01020 | -.05070 | .06230 |
| 1.297 | -3.940 | .00000 | .01020 | .08040 | .02970 | .01020 | -.05070 | .07270 |
| 1.297 | -1.940 | .00000 | .01020 | .08040 | .02970 | .01020 | -.05070 | .06230 |
| 1.297 | .010 | .00000 | .01020 | .06890 | .02970 | .01020 | -.03920 | .07270 |
| 1.298 | 1.990 | .00000 | .01020 | .06890 | .02970 | .01020 | -.03920 | .07270 |
| 1.297 | 4.010 | .00000 | .01020 | .06890 | .02970 | .01020 | -.03920 | .07270 |
| 1.297 | 5.980 | .00000 | .01020 | .04590 | .02970 | .01020 | -.01620 | .07270 |
| 1.298 | 7.970 | .00000 | .01020 | .04590 | .02970 | .01020 | -.01620 | .07270 |
| 1.297 | 12.030 | .00000 | .01020 | .04590 | .02970 | .01020 | -.01620 | .07270 |
| 1.293 | 16.311 | .00000 | .01020 | .04590 | .02970 | .01020 | -.01620 | .07270 |
| 1.297 | 22.364 | -.01010 | .01020 | .04590 | .02970 | .02030 | -.01620 | .07270 |
| GRADIENT | | .00000 | .00000 | -.00173 | .00000 | .00000 | .00173 | .00052 |

| MACH | BDFLAP | ELV-L0 | ELV-L1 | ELV-R0 | ELV-R1 | DELL | DELR | DRHL |
|----------|---------|--------|--------|---------|--------|---------|---------|---------|
| 1.405 | -11.672 | .0850 | .01020 | .01150 | .01980 | .00170 | .00830 | .00000 |
| 1.404 | -7.940 | .0850 | .01020 | .01150 | .01980 | .00170 | .00830 | .00000 |
| 1.404 | -5.940 | .0850 | .01020 | .01150 | .01980 | .00170 | .00830 | -.01020 |
| 1.404 | -3.521 | .0850 | .01020 | .01150 | .00990 | .00170 | .00160 | -.01020 |
| 1.403 | -1.950 | .0850 | .01020 | .01150 | .00990 | .00170 | .00160 | .00000 |
| 1.404 | .020 | .0850 | .01020 | .01150 | .00990 | .00170 | .00160 | -.01020 |
| 1.404 | 1.990 | .0850 | .01020 | .01150 | .00990 | .00170 | .00160 | -.01020 |
| 1.403 | 4.000 | .0850 | .01020 | .01150 | .00990 | .00170 | .00160 | .00000 |
| 1.403 | 5.990 | .0850 | .01020 | .01150 | .00990 | .00170 | .00160 | .00000 |
| 1.404 | 7.950 | .0850 | .00000 | .01150 | .00990 | -.00850 | .00160 | .00000 |
| 1.403 | 12.040 | .00000 | .00000 | .01150 | .00990 | .00000 | .00160 | -.01020 |
| 1.403 | 16.311 | .00000 | .00000 | .01150 | .01980 | .00000 | .00830 | -.01020 |
| 1.403 | 22.313 | .00000 | .00000 | .01150 | .00990 | .00000 | .00160 | .00000 |
| GRADIENT | | .00000 | .00000 | -.00000 | .00000 | .00000 | -.00000 | .00052 |

AMES 118-1-11 0A145A 01

(02F061) (16 JUL 77)

REFERENCE DATA

| | | | | | | | | | | |
|---|-------|---|-----------|--------|---|------|---|-----------|-----|----|
| = | SREF | = | 2690.0000 | SQ.FT. | = | XMRP | = | 1076.6800 | IN. | XO |
| = | LREF | = | 474.8100 | INCHES | = | YMRP | = | .0000 | IN. | YO |
| = | BREF | = | 936.6800 | INCHES | = | ZMRP | = | 375.0000 | IN. | ZO |
| = | SCALE | = | .0500 | | | | | | | |

PARAMETRIC DATA

| | | | | | |
|--------|---|-------|--------|---|--------|
| ALPHA | = | .000 | BETA | = | .000 |
| ELEVON | = | .000 | AILRON | = | .000 |
| BDFLAP | = | .000 | SPDRBK | = | 25.000 |
| RN/L | = | 5.000 | | | |

| MACH | RUN NO. | 329/ 0 | RN/L | 4.96 | GRADIENT | INTERVAL | -5.00/ | 5.00 | DELL | DELIR | DRHL |
|------|----------|--------|--------|---------|----------|----------|--------|---------|---------|-----------|------|
| | RUDDER | ELV-L0 | ELV-L1 | ELV-R0 | ELV-R1 | | | | | | |
| .598 | -15.355 | .00000 | .02040 | .02300 | .01980 | | .02040 | -.00320 | -.00320 | -18.49800 | |
| .598 | -10.291 | .00000 | .02040 | .02300 | .01980 | | .02040 | -.00320 | -.00320 | -12.47300 | |
| .598 | -5.093 | .00000 | .02040 | .02300 | .01980 | | .02040 | -.00320 | -.00320 | -6.19660 | |
| .598 | -2.513 | .00000 | .02040 | .02300 | .01980 | | .02040 | -.00320 | -.00320 | -3.06060 | |
| .598 | -.033 | .00000 | .02040 | .02300 | .01980 | | .02040 | -.00320 | -.00320 | -.04080 | |
| .598 | 2.541 | .00000 | .02040 | .02300 | .01980 | | .02040 | -.00320 | -.00320 | 3.09420 | |
| .598 | 4.864 | .00000 | .02040 | .02300 | .01980 | | .02040 | -.00320 | -.00320 | 5.91920 | |
| .598 | 9.576 | .00000 | .02040 | .02300 | .01980 | | .02040 | -.00320 | -.00320 | 11.61400 | |
| .598 | 14.614 | .00000 | .02040 | .02300 | .01980 | | .02040 | -.00320 | -.00320 | 17.62300 | |
| .598 | 18.253 | .00850 | .02040 | .02300 | .01980 | | .01190 | -.00320 | -.00320 | 21.89000 | |
| .598 | 23.063 | .00000 | .02040 | .02300 | .01980 | | .02040 | -.00320 | -.00320 | 27.41700 | |
| | GRADIENT | .00000 | .00000 | -.00000 | -.00000 | | .00000 | -.00000 | -.00000 | 1.21732 | |

| MACH | RUN NO. | 344/ 0 | RN/L = | 5.00 | GRADIENT | INTERVAL = | -5.00/ | 5.00 | DELL | DELRL | DRHL |
|------|----------|---------|--------|--------|----------|------------|--------|------|------|-------|-----------|
| .800 | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | | | | | |
| .800 | -15.338 | .01700 | .02040 | .02300 | .01980 | .00340 | | | | | -18.47800 |
| .800 | -10.307 | .01700 | .02040 | .02300 | .01980 | .00340 | | | | | -12.49200 |
| .800 | -5.076 | .01700 | .02040 | .01150 | .01980 | .00340 | | | | | -6.17610 |
| .801 | -2.513 | .01700 | .02040 | .02300 | .01980 | .00340 | | | | | -3.06060 |
| .799 | .000 | .01700 | .02040 | .02300 | .01980 | .00340 | | | | | .00000 |
| .800 | 2.549 | .01700 | .02040 | .02300 | .01980 | .00340 | | | | | 3.10440 |
| .800 | 4.856 | .01700 | .02040 | .02300 | .01980 | .00340 | | | | | 5.90910 |
| .801 | 9.584 | .01700 | .02040 | .02300 | .01980 | .00340 | | | | | 11.62500 |
| .801 | 14.605 | .00850 | .02040 | .02300 | .01980 | .01190 | | | | | 17.61200 |
| .800 | 18.280 | .00850 | .02040 | .02300 | .01980 | .01190 | | | | | 21.92200 |
| .800 | 22.963 | .00850 | .02040 | .02300 | .01980 | .01190 | | | | | 27.30400 |
| .800 | GRADIENT | -.00000 | .00000 | .00000 | .00000 | .00000 | | | | | 1.21732 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

ALPHA = .000
ELEVON = .000
BDFLAP = .000
RN/L = 5.000

PARAMETRIC DATA

BETA = .000
AILRON = .000
SPDBRK = 25.000

RUN NO. 390/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|---------|---------|-----------|
| .900 | -15.381 | .00850 | .01020 | .03450 | .00990 | .00170 | -.02460 | -18.52800 |
| .901 | -10.331 | .00850 | .01020 | .03450 | .00000 | .00170 | -.03450 | -12.52200 |
| .899 | -5.008 | .00850 | .00000 | .03450 | .00990 | -.00850 | -.02460 | -6.09400 |
| .901 | -2.504 | .00850 | .00000 | .03450 | .00000 | -.00850 | -.03450 | -3.04940 |
| .900 | .043 | .00850 | .00000 | .03450 | .00990 | -.00850 | -.02460 | .05190 |
| .900 | 2.566 | .00850 | .00000 | .03450 | .00990 | -.00850 | -.02460 | 3.12470 |
| .900 | 4.831 | .00850 | .01020 | .03450 | .00990 | .00170 | -.02460 | 5.87900 |
| .902 | 9.576 | .00850 | .01020 | .03450 | .00990 | .00170 | -.02460 | 11.61400 |
| .900 | 14.605 | .00850 | .01020 | .01150 | .00990 | .00170 | -.00160 | 17.61200 |
| .901 | 18.271 | .00850 | .01020 | .01150 | .00990 | .00170 | -.00160 | 21.91200 |
| .902 | 22.762 | .00850 | .01020 | .01150 | .00990 | .00170 | -.00160 | 27.07500 |
| | GRADIENT | .00000 | .00122 | .00000 | .00123 | .00122 | .00123 | 1.21733 |

RUN NO. 413/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|--------|--------|---------|-----------|
| .951 | -14.736 | -.03030 | .01020 | .01150 | .00000 | .04050 | -.01150 | -17.76800 |
| .951 | -10.691 | -.04040 | .01020 | .01150 | .00000 | .05060 | -.01150 | -12.95200 |
| .950 | -5.366 | -.04040 | .01020 | .01150 | .00000 | .05060 | -.01150 | -6.52820 |
| .951 | -2.776 | -.04040 | .01020 | .01150 | .00000 | .05060 | -.01150 | -3.38050 |
| .952 | -.966 | -.04040 | .01020 | .01150 | .00000 | .05060 | -.01150 | -1.17720 |
| .950 | -.123 | -.04040 | .01020 | .01150 | .00000 | .05060 | -.01150 | -.15000 |
| .950 | 2.333 | -.04040 | .01020 | .01150 | .00000 | .05060 | -.01150 | 2.84100 |
| .952 | 4.811 | -.04040 | .01020 | .01150 | .00000 | .05060 | -.01150 | 5.85430 |
| .951 | 9.684 | -.04040 | .01020 | .01150 | .00000 | .05060 | -.01150 | 11.74400 |
| .950 | 14.538 | -.04040 | .01020 | .01150 | .00000 | .05060 | -.01150 | 17.53400 |
| .949 | 18.070 | -.04040 | .01020 | .01150 | .00000 | .05060 | -.01150 | 21.67800 |
| .950 | 22.799 | -.04040 | .01020 | .01150 | .00000 | .05060 | -.01150 | 27.11700 |
| | GRADIENT | -.00000 | -.00000 | -.00000 | .00000 | .00000 | .00000 | 1.21735 |

REFERENCE DATA

| | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|--------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. ZO |
| LRF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. ZO |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. ZO |
| SCALE | = | .0500 | | | | | |

PARAMETRIC DATA

| | | | | | |
|--------|---|-------|--------|---|--------|
| ALPHA | = | 5.000 | BETA | = | .000 |
| ELEVON | = | .000 | ATLRON | = | .000 |
| BDFLAP | = | .000 | SPOBRK | = | 25.000 |
| RN/L | = | 5.000 | | | |

| MACH | RUN NO. | 323/ 0 | RN/L = | 4.96 | GRADIENT INTERVAL = | -5.00/ | 5.00 | DELR | DRHL |
|------|---------|--------|--------|--------|---------------------|--------|------|--------|-----------|
| .597 | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-R1 | DELL | | .00830 | -18.88000 |
| .597 | -15.680 | .00850 | .02040 | .01150 | .01980 | .01190 | | .00830 | -12.48300 |
| .597 | -10.299 | .00850 | .02040 | .01150 | .01980 | .01190 | | .00830 | -6.20690 |
| .597 | -5.101 | .00850 | .02040 | .01150 | .00990 | .01190 | | .00830 | -5.02710 |
| .597 | -4.130 | .00850 | .02040 | .01150 | .01980 | .01190 | | .00830 | -3.73330 |
| .597 | -3.066 | .00850 | .02040 | .01150 | .01980 | .01190 | | .00830 | -2.39910 |
| .597 | -1.970 | .00850 | .02040 | .01150 | .01980 | .01190 | | .00830 | -1.18220 |
| .597 | -.970 | .00850 | .02040 | .01150 | .01980 | .01190 | | .00830 | .06230 |
| .597 | .051 | .00850 | .02040 | .01150 | .01980 | .01190 | | .00830 | 1.26670 |
| .597 | 1.040 | .00850 | .02040 | .01150 | .01980 | .01190 | | .00830 | 2.52550 |
| .597 | 2.073 | .00850 | .02040 | .01150 | .01980 | .01190 | | .00830 | 3.64270 |
| .597 | 2.991 | .00850 | .02040 | .01150 | .01980 | .01190 | | .00830 | 4.78340 |
| .597 | 3.829 | .00850 | .02040 | .01150 | .01980 | .01190 | | .00830 | 5.92920 |
| .597 | 4.873 | .00850 | .02040 | .01150 | .01980 | .01190 | | .00830 | 11.63500 |
| .597 | 5.993 | .00850 | .02040 | .01150 | .01980 | .01190 | | .00830 | 17.63400 |
| .597 | 14.623 | .00850 | .02040 | .01150 | .01980 | .01190 | | .00830 | 21.91200 |
| .597 | 18.271 | .00850 | .02040 | .01150 | .01980 | .01190 | | .00830 | 27.44800 |
| .597 | 23.091 | .00850 | .02040 | .01150 | .01980 | .01190 | | .00830 | 1.21739 |
| .597 | CRASH | .00000 | .00000 | .00000 | .00000 | .00000 | | .00000 | |

| MACH | RUN NO. | 345/ 0 | RN/L = | 4.99 | GRADIENT | INTERVAL = | -5.00/ | 5.00 | DELR | DRHL |
|------|----------|--------|--------|--------|----------|------------|---------|------|-----------|------|
| | RUDDER | ELV-L0 | ELV-L1 | ELV-R0 | ELV-R1 | DELL | DELR | | | |
| .800 | -15.338 | .00850 | .020+0 | .02300 | .01980 | .01190 | -.00320 | | -18.47800 | |
| .800 | -10.307 | .00850 | .020+0 | .02300 | .01980 | .01190 | -.00320 | | -12.49200 | |
| .799 | -5.110 | .00850 | .020+0 | .02300 | .01980 | .01190 | -.00320 | | -6.21710 | |
| .800 | -2.531 | .00850 | .020+0 | .02300 | .01980 | .01190 | -.00320 | | -3.08300 | |
| .800 | .068 | .00850 | .020+0 | .02300 | .01980 | .01190 | -.00320 | | .08310 | |
| .799 | 2.532 | .00850 | .020+0 | .02300 | .01980 | .01190 | -.00320 | | 3.08410 | |
| .799 | 4.897 | .00850 | .020+0 | .02300 | .01980 | .01190 | -.00320 | | 5.95940 | |
| .800 | 9.584 | .00850 | .020+0 | .02300 | .01980 | .01190 | -.00320 | | 11.62500 | |
| .800 | 14.623 | .00850 | .020+0 | .02300 | .01980 | .01190 | -.00320 | | 17.63400 | |
| .799 | 18.290 | .00850 | .020+0 | .02300 | .01980 | .01190 | -.00320 | | 21.93300 | |
| .800 | 22.963 | .00850 | .020+0 | .02300 | .01980 | .01190 | -.00320 | | 27.30400 | |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | -.00000 | | 1.21730 | |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1409

AMES 118-1-11 OAI45A 01(-TO*)

(02F062) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDRK = 25.000
 RN/L = 5.000

RUN NO. 350/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|--------|--------|--------|---------|--------|-----------|
| .902 | -15.364 | .01700 | .02040 | .00000 | .01980 | .00340 | .01980 | -18.50800 |
| .900 | -10.315 | .02550 | .02040 | .00000 | .01980 | -.00510 | .01980 | -12.50200 |
| .901 | -5.101 | .01700 | .02040 | .00000 | .01980 | .00340 | .01980 | -6.20690 |
| .900 | -4.079 | .01700 | .02040 | .00000 | .01980 | .00340 | .01980 | -4.96550 |
| .901 | -3.066 | .01700 | .01020 | .00000 | .01980 | -.00680 | .01980 | -3.73330 |
| .901 | -1.988 | .02550 | .01020 | .00000 | .01980 | -.01530 | .01980 | -2.42150 |
| .901 | -.945 | .01700 | .01020 | .00000 | .01980 | -.00680 | .01980 | -1.15160 |
| .902 | .128 | .01700 | .01020 | .00000 | .01980 | -.00680 | .01980 | .15570 |
| .901 | 1.057 | .01700 | .02040 | .00000 | .01980 | .00340 | .01980 | 1.28750 |
| .901 | 2.073 | .01700 | .02040 | .00000 | .01980 | .00340 | .01980 | 2.52550 |
| .902 | 2.983 | .01700 | .02040 | .00000 | .01980 | .00340 | .01980 | 3.63250 |
| .902 | 3.929 | .01700 | .02040 | .00000 | .01980 | .00340 | .01980 | 4.78340 |
| .901 | 4.848 | .01700 | .02040 | .00000 | .01980 | .00340 | .01980 | 5.89910 |
| .901 | 9.584 | .01700 | .02040 | .00000 | .01980 | .00340 | .01980 | 11.62500 |
| .900 | 14.614 | .01700 | .02040 | .00000 | .00990 | .00340 | .01980 | 17.62300 |
| .902 | 18.271 | .01700 | .02040 | .00000 | .01980 | .00340 | .01980 | 21.91200 |
| .901 | 22.855 | .01700 | .02040 | .00000 | .01980 | .00340 | .01980 | 27.18000 |
| | GRADIENT | -.00026 | .00098 | .00000 | .00000 | .00124 | .00000 | 1.21740 |

RUN NO. 414/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|--------|--------|---------|---------|-----------|
| .950 | -14.741 | .00000 | .01020 | .01150 | .00000 | .01020 | .01150 | -17.77400 |
| .951 | -5.373 | -.03030 | .01020 | .01150 | .00000 | .04050 | .01150 | -6.53730 |
| .950 | -2.727 | -.05050 | .01020 | .01150 | .00000 | .05070 | .01150 | -3.32110 |
| .951 | -.103 | -.01010 | .00000 | .02300 | .00000 | .01010 | .02300 | -.12540 |
| .950 | 2.315 | -.03030 | .00000 | .01150 | .00000 | .03030 | .01150 | 2.82000 |
| .950 | 4.968 | -.03030 | .00000 | .02300 | .00000 | .03030 | .02300 | 6.04510 |
| .950 | 9.700 | -.04040 | .01020 | .02300 | .00000 | .05060 | .02300 | 11.76400 |
| .949 | 14.530 | -.07070 | .01020 | .02300 | .00000 | .08090 | .02300 | 17.52300 |
| .949 | 18.061 | .00000 | .01020 | .01150 | .00000 | .01020 | .01150 | 21.66800 |
| .950 | 22.827 | .00000 | .01020 | .02300 | .00000 | .01020 | .02300 | 27.14900 |
| | GRADIENT | .00163 | -.00120 | .00093 | .00000 | -.00283 | -.00093 | 1.21727 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1410

AMES 118-1-11 0A145A 01(-TO+)

(02F062) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 AILRON = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO BDFLAP = .000 SPDBRK = 25.000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 357/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|---------|---------|--------|---------|---------|-----------|
| 1.093 | -15.389 | .00850 | .02040 | .01150 | .01980 | .01190 | .00830 | -18.53800 |
| 1.102 | -10.315 | .00850 | .01020 | .01150 | .00990 | .00170 | -.00160 | -12.50200 |
| 1.102 | -5.101 | .00850 | .01020 | .00000 | .00990 | .00170 | -.00990 | -6.20690 |
| 1.100 | -2.522 | .00850 | .01020 | .01150 | .00990 | .00170 | -.00160 | -3.07180 |
| 1.100 | .102 | .00850 | .00000 | .00000 | .00990 | -.00850 | .00990 | .12460 |
| 1.100 | 2.532 | .00850 | .00000 | .00000 | .00990 | -.00850 | .00990 | 3.08410 |
| 1.100 | 4.848 | .00850 | .01020 | .00000 | .00990 | .00170 | .00990 | 5.89910 |
| 1.101 | 9.584 | .00850 | .01020 | .00000 | .00990 | .00170 | .00990 | 11.62500 |
| 1.100 | 14.596 | .00850 | .01020 | .00000 | .00990 | .00170 | .00990 | 17.60100 |
| 1.100 | 18.262 | .00850 | .01020 | .00000 | .00990 | .00170 | .00990 | 21.90100 |
| 1.100 | 22.670 | .00850 | .01020 | .00000 | .00990 | .00170 | .00990 | 26.97000 |
| 1.100 | GRADIENT | .00000 | -.00005 | -.00144 | .00000 | -.00005 | .00144 | 1.21731 |

RUN NO. 360/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|--------|--------|--------|--------|---------|-----------|
| 1.198 | -15.389 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | -18.53800 |
| 1.200 | -10.331 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | -12.52200 |
| 1.199 | -5.076 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | -6.17610 |
| 1.201 | -4.104 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | -4.99630 |
| 1.201 | -3.057 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | -3.72210 |
| 1.200 | -1.979 | .01700 | .03060 | .01150 | .00000 | .01360 | -.01150 | -2.41030 |
| 1.199 | -.970 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | -1.18220 |
| 1.199 | .000 | .01700 | .03060 | .01150 | .00000 | .01360 | -.01150 | .00000 |
| 1.200 | 1.031 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | 1.25630 |
| 1.200 | 2.057 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | 2.50520 |
| 1.200 | 3.000 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | 3.65280 |
| 1.200 | 3.937 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | 4.79340 |
| 1.199 | 4.856 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | 5.90910 |
| 1.201 | 9.584 | .01700 | .02040 | .01150 | .00990 | .00340 | -.00160 | 11.62500 |
| 1.201 | 14.614 | .01700 | .02040 | .01150 | .00990 | .00340 | -.00160 | 17.62300 |
| 1.200 | 18.253 | .01700 | .02040 | .01150 | .00990 | .00340 | -.01150 | 21.89000 |
| 1.200 | 22.642 | .01700 | .02040 | .01150 | .00990 | .00340 | -.00160 | 26.93800 |
| 1.199 | GRADIENT | -.00000 | .00000 | .00000 | .00035 | .00000 | .00035 | 1.21740 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1411

AMES 118-1-11 0A145A 01(-TO+)

(D2F062) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BOFLAP = .000 SPDBRK = 25.000
 RN/L = 5.000

| MACH | RUDDER | RUN NO. 380/ 0 RN/L = 4.99 | | | | GRADIENT INTERVAL = -5.00/ 5.00 | | | |
|-------|----------|----------------------------|--------|---------|--------|---------------------------------|--------|-----------|--|
| | | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL | |
| 1.298 | -15.372 | .0000 | .01020 | .01150 | .01980 | .01020 | .00830 | -18.51800 | |
| 1.298 | -10.299 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -12.48300 | |
| 1.297 | -5.101 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -6.20690 | |
| 1.298 | -2.476 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -3.01580 | |
| 1.298 | -.033 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -.04080 | |
| 1.297 | 2.532 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | 3.08410 | |
| 1.297 | 4.856 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | 5.90910 | |
| 1.297 | 9.584 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | 11.62500 | |
| 1.296 | 14.614 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | 17.62300 | |
| 1.297 | 18.308 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | 21.95500 | |
| 1.297 | 22.623 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | 26.91700 | |
| 1.297 | GRADIENT | .00104 | .00000 | -.00000 | .00000 | -.00104 | .00000 | 1.21733 | |

| MACH | RUDDER | RUN NO. 370/ 0 RN/L = 5.03 | | | | GRADIENT INTERVAL = -5.00/ 5.00 | | | |
|-------|----------|----------------------------|--------|---------|---------|---------------------------------|---------|-----------|--|
| | | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL | |
| 1.403 | -15.372 | .00000 | .00000 | .01150 | .01980 | .00000 | .00830 | -18.51800 | |
| 1.403 | -10.299 | .00000 | .00000 | .01150 | .02970 | .00000 | .01820 | -12.48300 | |
| 1.403 | -5.084 | .00000 | .00000 | .01150 | .02970 | .00000 | .01820 | -6.18640 | |
| 1.403 | -2.531 | .00000 | .00000 | .01150 | .02970 | .00000 | .01820 | -3.08300 | |
| 1.403 | .034 | .00000 | .00000 | .01150 | .02970 | .00000 | .01820 | .04150 | |
| 1.403 | 2.524 | .00000 | .00000 | .01150 | .01980 | .00000 | .00830 | 3.07390 | |
| 1.404 | 4.864 | .00000 | .00000 | .01150 | .00990 | .00000 | -.00160 | 5.91920 | |
| 1.403 | 9.567 | .00000 | .00000 | .01150 | .02970 | .00000 | .01820 | 11.60400 | |
| 1.403 | 14.605 | .00000 | .00000 | .01150 | .02970 | .00000 | .01820 | 17.61200 | |
| 1.403 | 18.271 | .00000 | .00000 | .01150 | .02970 | .00000 | .01820 | 21.91200 | |
| 1.403 | 22.670 | .00000 | .01020 | .01150 | .02970 | .00000 | .01820 | 26.97000 | |
| 1.403 | GRADIENT | .00000 | .00000 | -.00000 | -.00279 | .00000 | -.00279 | 1.21732 | |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

AMES 118-1-11 0A145A 01(+TO-)

(DEF063) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELEVON = .000 AILRON = .000
BOFLAP = .000 SPOBRK = 25.000
RN/L = 5.000

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 324/ 0 RN/L = 4.95

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|--------|--------|-----------|
| .597 | -22.170 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -26.40200 |
| .597 | -15.372 | .00830 | .01020 | .01130 | .01980 | .00170 | .00830 | -18.51800 |
| .597 | -10.307 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -12.49200 |
| .597 | -5.093 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -6.19660 |
| .596 | -3.066 | .00850 | .02040 | .01150 | .01980 | .00190 | .00830 | -3.73330 |
| .597 | -1.979 | .00850 | .02040 | .01150 | .01980 | .00190 | .00830 | -2.41030 |
| .597 | -.962 | .00850 | .02040 | .01150 | .01980 | .00190 | .00830 | -1.17200 |
| .597 | .026 | .00850 | .02040 | .01150 | .01980 | .00190 | .00830 | .03110 |
| .597 | 1.031 | .00850 | .02040 | .01150 | .01980 | .00190 | .00830 | 1.25630 |
| .597 | 2.073 | .00850 | .02040 | .01150 | .01980 | .00190 | .00830 | 2.52550 |
| .596 | 2.983 | .00850 | .02040 | .01150 | .01980 | .00190 | .00830 | 3.63250 |
| .596 | 3.880 | .00850 | .02040 | .01150 | .01980 | .00190 | .00830 | 4.72310 |
| .597 | 4.873 | .00850 | .02040 | .01150 | .01980 | .00190 | .00830 | 5.92920 |
| .596 | 9.584 | .00850 | .02040 | .01150 | .01980 | .00190 | .00830 | 11.62500 |
| .597 | 14.596 | .00850 | .02040 | .01150 | .01980 | .00190 | .00830 | 17.60100 |
| .597 | 18.253 | .00850 | .02040 | .01150 | .01980 | .00190 | .00830 | 21.89000 |
| .597 | 23.109 | .00850 | .02040 | .01150 | .01980 | .00190 | .00830 | 27.46800 |
| .597 | GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | 1.21745 |

RUN NO. 351/ 0 RN/L = 4.97

GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|--------|---------|---------|---------|-----------|
| .902 | -22.179 | .02550 | .01020 | .00000 | .01980 | -.01530 | .01980 | -26.41200 |
| .901 | -15.372 | .02550 | .01020 | .00000 | .01980 | -.01530 | .01980 | -18.51800 |
| .901 | -10.323 | .02550 | .02040 | .00000 | .01980 | -.00510 | .01980 | -12.51200 |
| .902 | -5.110 | .02550 | .01020 | .00000 | .01980 | -.01530 | .01980 | -6.21710 |
| .901 | -3.066 | .02550 | .02040 | .00000 | .01980 | -.00510 | .01980 | -3.73330 |
| .902 | -1.988 | .02550 | .02040 | .00000 | .01980 | -.00510 | .01980 | -2.42150 |
| .901 | -.954 | .02550 | .02040 | .00000 | .01980 | -.00510 | .01980 | -1.16180 |
| .901 | .017 | .02550 | .02040 | .00000 | .01980 | -.00510 | .01980 | .02080 |
| .901 | 1.023 | .02550 | .03060 | .00000 | .01980 | .00510 | .01980 | 1.24590 |
| .901 | 2.065 | .02550 | .03060 | .00000 | .01980 | .00510 | .01980 | 2.51530 |
| .901 | 2.983 | .01700 | .01020 | .00000 | .01980 | -.00680 | .01980 | 3.63250 |
| .901 | 3.921 | .01700 | .01020 | .00000 | .01980 | -.00680 | .01980 | 4.77330 |
| .901 | 4.856 | .01700 | .01020 | .00000 | .00990 | -.00680 | .00990 | 5.90910 |
| .902 | 9.576 | .01700 | .01020 | .00000 | .00990 | -.00680 | .00990 | 11.61400 |
| .902 | 14.586 | .01700 | .02040 | .00000 | .01980 | .00340 | .01980 | 17.59000 |
| .901 | 18.262 | .01700 | .02040 | .00000 | .01980 | .00340 | .01980 | 21.90100 |
| .902 | 22.855 | .01700 | .02040 | .00000 | .01980 | .00340 | .01980 | 27.18000 |
| .898 | GRADIENT | -.00128 | -.00134 | .00000 | -.00065 | -.00006 | -.00065 | 1.21745 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1413

AMES 118-1-11 OAI45A 01(+TO-)

(DEF063) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELEVON = .000 AILRON = .000
BOFLAP = .000 SPOBRK = 25.000
RN/L = 5.000

RUN NO. 361/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|---------|--------|---------|--------|---------|---------|-----------|
| 1.199 | -22.205 | .01700 | .01020 | .01150 | .00000 | -.00680 | -.01150 | -26.44100 |
| 1.199 | -15.398 | .01700 | .01020 | .01150 | .00000 | -.00680 | -.01150 | -18.54800 |
| 1.199 | -10.339 | .01700 | .01020 | .01150 | .00000 | -.00680 | -.01150 | -12.53100 |
| 1.200 | -5.135 | .01700 | .01020 | .01150 | .00000 | -.00680 | -.01150 | -6.24790 |
| 1.201 | -3.066 | .01700 | .01020 | .02300 | .00000 | -.00680 | -.02300 | -3.73330 |
| 1.199 | -1.997 | .01700 | .01020 | .01150 | .00000 | -.00680 | -.01150 | -2.43270 |
| 1.199 | -.979 | .01700 | .01020 | .02300 | .00000 | -.00680 | -.02300 | -1.19240 |
| 1.199 | -.017 | .01700 | .01020 | .01150 | .00000 | -.00680 | -.01150 | -.02040 |
| 1.199 | 1.040 | .01700 | .02040 | .01150 | .00000 | .00340 | -.01150 | 1.26670 |
| 1.230 | 2.065 | .01700 | .02040 | .01150 | .00000 | .00340 | -.01150 | 2.51530 |
| 1.199 | 3.008 | .01700 | .02040 | .01150 | .00000 | .00340 | -.01150 | 3.66300 |
| 1.199 | 3.929 | .01700 | .02040 | .01150 | .00000 | .00340 | -.01150 | 4.78340 |
| 1.200 | 4.839 | .01700 | .02040 | .01150 | .00000 | .00340 | -.01150 | 5.88900 |
| 1.201 | 9.559 | .01700 | .02040 | .01150 | .00000 | .00340 | -.01150 | 11.59400 |
| 1.201 | 14.577 | .01700 | .02040 | .01150 | .00000 | .00340 | -.01150 | 17.58000 |
| 1.201 | 18.243 | .01700 | .02040 | .01150 | .00000 | .00340 | -.01150 | 21.87900 |
| 1.200 | 22.642 | .01700 | .02040 | .01150 | .00990 | .00340 | -.00160 | 26.93800 |
| GRADIENT | | -.00000 | .00173 | -.00117 | .00000 | .00173 | .00117 | 1.21745 |

(02F064) (16 JUL 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

| | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|--------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. YO |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. YO |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. YO |
| SCALE | = | .0500 | | | | | |

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|--------|---|--------|--------|---|--------|
| ALPHA | = | 10.000 | BETA | = | .000 |
| ELEVON | = | .000 | AILRON | = | .000 |
| BOFLAP | = | .000 | SPDBRK | = | 25.000 |
| RN/L | = | 5.000 | | | |

PARAMETRIC DATA

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 325 / 0 RN/L = 4.96

[illegible]

GRADIENT INTERVAL = -5.00/ 5.00

| BLIN NO. | 346/ 0 | RN/L = | 4.97 |
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| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|--------|--------|--------|---------|--------|---------|-----------|
| .801 | -15.347 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -18.48800 |
| .800 | -10.315 | .00850 | .01020 | .02300 | .01980 | .00170 | - | -12.50200 |
| .801 | -5.084 | .00850 | .01020 | .02300 | .01980 | .00170 | - | -6.18640 |
| .800 | -2.485 | .00850 | .01020 | .02300 | .01980 | .00170 | - | -3.02700 |
| .801 | .068 | .00850 | .01020 | .02300 | .01980 | .00170 | - | .08310 |
| .801 | 2.549 | .00850 | .01020 | .02300 | .01980 | .00170 | - | 3.10440 |
| .799 | 4.873 | .00850 | .01020 | .02300 | .01980 | .00170 | - | 5.92920 |
| .801 | 9.584 | .00850 | .01020 | .02300 | .01980 | .00170 | - | 11.62500 |
| .801 | 14.614 | .00850 | .01020 | .02300 | .01980 | .00170 | - | 17.62300 |
| .800 | 18.280 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | 21.92200 |
| .800 | 23.009 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | 27.35500 |
| GRADIENT | - | .00000 | .00000 | .00000 | -.00000 | .00000 | -.00000 | 1.21732 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 10.000 BETA = .000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 AILRON = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO RNF/LAP = .000 SPDRK = 25.000
SCALE = .0500 RNF/L = 5.000

PARAMETRIC DATA

RUN NO. 352/ 0 RNF/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|--------|--------|--------|---------|---------|---------|-----------|
| .900 | -15.355 | .02550 | .02040 | .00000 | .01980 | -.00510 | .01980 | -18.49800 |
| .902 | -10.307 | .02550 | .02040 | .00000 | .01980 | -.00510 | .01980 | -12.49200 |
| .901 | -5.110 | .02550 | .02040 | .00000 | .01980 | -.00510 | .01980 | -6.21710 |
| .901 | -2.522 | .02550 | .01020 | .00000 | .20790 | -.01530 | .20790 | -3.07180 |
| .901 | .060 | .02550 | .01020 | .00000 | .01980 | -.01530 | .19800 | .07270 |
| .901 | 2.516 | .02550 | .02040 | .00000 | .20790 | -.00510 | .20790 | 3.06380 |
| .902 | 4.897 | .02550 | .02040 | .00000 | .01980 | -.00510 | .01980 | 5.95940 |
| .902 | 9.567 | .02550 | .02040 | .00000 | .01980 | -.00510 | .01980 | 11.60400 |
| .900 | 14.586 | .02550 | .02040 | .00000 | .01980 | -.00510 | .01980 | 17.59000 |
| .901 | 18.262 | .03400 | .02040 | .00000 | .01980 | -.01360 | .01980 | 21.90100 |
| .900 | 22.836 | .02550 | .02040 | .00000 | .01980 | -.00510 | .01980 | 27.15900 |
| GRADIENT | | .00000 | .00165 | .00000 | -.02215 | .00165 | -.02215 | 1.21730 |

RUN NO. 415/ 0 RNF/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|---------|--------|---------|--------|---------|---------|-----------|
| .950 | -14.747 | .01700 | .00000 | .02300 | .00000 | -.01700 | -.02300 | -17.78000 |
| .951 | -10.691 | .01700 | .01020 | .02300 | .00000 | -.00680 | -.02300 | -12.95200 |
| .952 | -5.344 | .01700 | .01020 | .02300 | .00000 | -.00680 | -.02300 | -6.50090 |
| .950 | -2.760 | .01700 | .01020 | .02300 | .00000 | -.00680 | -.02300 | -3.36070 |
| .951 | .083 | .01700 | .01020 | .02300 | .00000 | -.00680 | -.02300 | -.10070 |
| .952 | 2.324 | .01700 | .01020 | .02300 | .00000 | -.00680 | -.02300 | 2.83050 |
| .950 | 4.802 | .01700 | .01020 | .02300 | .00000 | -.00680 | -.02300 | 5.84310 |
| .950 | 9.700 | .01700 | .01020 | .02300 | .00000 | -.00680 | -.02300 | 11.76400 |
| .950 | 14.538 | .01700 | .01020 | .02300 | .00000 | -.00680 | -.02300 | 17.53400 |
| .950 | 18.061 | .01700 | .01020 | .02300 | .00000 | -.00680 | -.02300 | 21.66600 |
| .950 | 22.771 | .01700 | .01020 | .02300 | .00000 | -.00680 | -.02300 | 27.08500 |
| GRADIENT | | -.00000 | .00000 | -.00000 | .00000 | .00000 | .00000 | 1.21733 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1416

AMES 118-1-11 OAI45A 01

(02F064) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = 25.000
 RN/L = 5.000

RUN NO. 362/ 0 RN/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|---------|--------|---------|---------|-----------|
| 1.199 | -15.381 | .01700 | .02040 | .01150 | .00000 | .00340 | -.01150 | -18.52800 |
| 1.201 | -10.339 | .01700 | .02040 | .01150 | .00000 | .00340 | -.01150 | -12.53100 |
| 1.199 | -5.101 | .01700 | .02040 | .01150 | .00000 | .00340 | -.01150 | -6.20690 |
| 1.201 | -2.541 | .01700 | .02040 | .02300 | .00000 | .00340 | -.02300 | -3.09420 |
| 1.201 | -.042 | .01700 | .02040 | .01150 | .00000 | .00340 | -.01150 | -.05100 |
| 1.200 | 2.541 | .01700 | .02040 | .01150 | .00000 | .00340 | -.01150 | 3.09420 |
| 1.201 | 4.864 | .01700 | .02040 | .01150 | .00000 | .00340 | -.01150 | 5.91920 |
| 1.201 | 8.737 | .01700 | .01020 | .01150 | .00000 | -.00680 | -.01150 | 10.60500 |
| 1.199 | 14.577 | .01700 | .01020 | .02300 | .00000 | -.00680 | -.02300 | 17.58000 |
| 1.199 | 18.280 | .01700 | .01020 | .01150 | .00000 | -.00680 | -.01150 | 21.92200 |
| 1.139 | 22.614 | .01700 | .02040 | .01150 | .00000 | .00340 | -.01150 | 26.90700 |
| | GRADIENT | .00000 | .00000 | -.00140 | .00000 | .00000 | .00140 | 1.21732 |

RUN NO. 379/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|--------|--------|--------|--------|--------|-----------|
| 1.300 | -15.381 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -18.52800 |
| 1.299 | -10.291 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -12.47300 |
| 1.299 | -5.160 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -6.27870 |
| 1.299 | -2.531 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -3.08300 |
| 1.299 | .077 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | .09340 |
| 1.298 | 2.524 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | 3.07390 |
| 1.298 | 4.814 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | 5.85890 |
| 1.297 | 9.601 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | 11.64500 |
| 1.298 | 14.633 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | 17.64500 |
| 1.297 | 18.253 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | 21.89000 |
| 1.297 | 22.679 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | 26.98000 |
| | GRADIENT | -.00000 | .00000 | .00000 | .00119 | .00000 | .00119 | 1.21734 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1417

(DEF064) (16 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = 25.000
 RN/L = 5.000

RUN NO. 371/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|--------|--------|---------|-----------|
| 1.399 | -15.389 | .00000 | .01020 | .03450 | .02970 | .01020 | -.00480 | -18.53800 |
| 1.401 | -10.315 | .00000 | .01020 | .02300 | .02970 | .01020 | .00670 | -12.50200 |
| 1.401 | -5.127 | .00000 | .01020 | .02300 | .02970 | .01020 | .00670 | -6.23770 |
| 1.401 | -2.504 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -3.04940 |
| 1.401 | .111 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | .13500 |
| 1.402 | 2.499 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | 3.04340 |
| 1.402 | 4.856 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | 5.90910 |
| 1.403 | 9.567 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | 11.60400 |
| 1.403 | 14.586 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | 17.59000 |
| 1.401 | 18.253 | .00000 | .01020 | .02300 | .02970 | .01020 | .00670 | 21.89000 |
| 1.401 | 22.688 | .00000 | .01020 | .02300 | .02970 | .01020 | .00670 | 26.99100 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | 1.21731 |

AMES 118-1-11 OAI45A 01

(DEF065) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 15.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = 25.000
 RN/L = 5.000

RUN NO. 326/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|---------|---------|---------|-----------|
| .597 | -15.372 | .01700 | .02040 | .01150 | .01980 | .00340 | .00830 | -18.51800 |
| .593 | -10.323 | .01700 | .02040 | .02300 | .01980 | .00340 | -.00320 | -12.51200 |
| .596 | -5.093 | .01700 | .02040 | .01150 | .01980 | .00340 | .00830 | -6.19660 |
| .597 | -2.513 | .01700 | .02040 | .02300 | .02970 | .00340 | .00670 | -3.06060 |
| .597 | .068 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | .08310 |
| .597 | 2.524 | .01700 | .02040 | .02300 | .01980 | .00340 | -.00320 | 3.07390 |
| .597 | 4.864 | .01700 | .02040 | .02300 | .01980 | .00340 | -.00320 | 5.91920 |
| .596 | 9.593 | .01700 | .02040 | .02300 | .01980 | .00340 | -.00320 | 11.63500 |
| .595 | 14.623 | .01700 | .02040 | .02300 | .01980 | .00340 | -.00320 | 17.63400 |
| .597 | 18.299 | .01700 | .01020 | .02300 | .01980 | -.00680 | -.00320 | 21.94400 |
| .596 | 23.091 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | 27.44800 |
| | GRADIENT | .00000 | .00039 | .00044 | -.00161 | .00039 | -.00205 | 1.21731 |

AMES 118-1-11 0A145A 01

(02F065) (16 JUL 77)

REFERENCE DATA

| | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|--------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. X0 |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. Y0 |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. Z0 |
| SCALE | = | .0500 | | | | | |

PARAMETRIC DATA

| | | | | | |
|--------|---|--------|-------|---|--------|
| ALPHA | = | 15.000 | BETA | = | .000 |
| ELEVON | = | .000 | AIRON | = | .000 |
| BCFLAP | = | .000 | SPDRK | = | 25.000 |
| RN/L | = | 5.000 | | | |

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|---------|--------|-------------|---------------------------------|
| RUN NO. | 363/ 0 | RN/L = 4.92 | GRADIENT INTERVAL = -5.00/ 5.00 |
|---------|--------|-------------|---------------------------------|

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|--------|--------|--------|--------|--------|---------|-----------|
| 1.199 | -15.389 | .0850 | .01020 | .01150 | .00990 | .00170 | -.00160 | -18.53800 |
| 1.199 | -10.315 | .0850 | .01020 | .01150 | .00990 | .00170 | -.00160 | -12.50200 |
| 1.199 | -5.101 | .0850 | .01110 | .01150 | .00990 | .00170 | -.00160 | -6.21710 |
| 1.201 | -2.504 | .0850 | .02040 | .01150 | .00990 | .01190 | -.00160 | -3.04940 |
| 1.200 | .008 | .0850 | .02040 | .01150 | .00990 | .01190 | -.01040 | .01040 |
| 1.200 | 2.507 | .0850 | .02040 | .01150 | .00990 | .01190 | -.00160 | 3.05360 |
| 1.200 | 4.873 | .0850 | .02040 | .01150 | .00990 | .01190 | -.00160 | 5.92920 |
| 1.200 | 9.618 | .0850 | .02040 | .01150 | .00990 | .01190 | -.00160 | 11.66500 |
| 1.199 | 14.596 | .0850 | .02040 | .01150 | .00990 | .01190 | -.00160 | 17.60100 |
| 1.199 | 22.670 | .0850 | .02040 | .01150 | .00990 | .01190 | -.00160 | 26.97000 |
| GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.00000 | 1.21730 |

| | | | |
|---------|--------|-------------|---------------------------------|
| RUN NO. | 378/ 0 | RN/L = 4.95 | GRADIENT INTERVAL = -5.00/ 5.00 |
|---------|--------|-------------|---------------------------------|

[illegible]

DATE 10 MAR 80

OA145 TABULATED FORCE DATA

PAGE 1419

AMES 118-1-11 0A145A 01

(D2F065) (16 JUL 77)

REFERENCE DATA

| | | | | | | | | |
|---|-----------|--------|---|------|---|-----------|-----|----|
| • | 2690.0000 | SC.FT. | • | XMRP | • | 1076.5800 | IN. | X0 |
| • | 474.8100 | INCHES | • | YMRP | • | .0000 | IN. | Y0 |
| • | 936.6800 | INCHES | • | ZMRP | • | 375.0000 | IN. | Z0 |
| • | SCALE | • | • | | | | | |

| | | | | | |
|--------|---|--------|--------|---|--------|
| ALPHA | = | 15.000 | BETA | = | .000 |
| ELEVON | = | .000 | AILRON | = | .000 |
| BDFLAP | = | .000 | SPDBRK | = | 25.000 |
| RN/L | = | 5.000 | | | |

PARAMETRIC DATA

| | | | |
|---------|--------|-------------|---------------------------------|
| RUN NO. | 372/ 0 | RN/L = 4.90 | GRADIENT INTERVAL = -5.00/ 5.00 |
|---------|--------|-------------|---------------------------------|

[illegible]

AMES 118-1-11 0A145A 01

(D2F066) (16 JUL 77)

REFERENCE DATA

| | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|--------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. X0 |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. Y0 |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. Z0 |
| SCALE | = | .0500 | | | | | |

| | | | | | |
|--------|---|--------|--------|---|--------|
| BETA | = | .000 | ELEVON | = | .000 |
| AILRON | = | .000 | BDFLAP | = | .000 |
| SPOBRK | = | 25.000 | RUDDER | = | -5.000 |
| RN/L | = | 5.000 | | | |

PARAMETRIC DATA

| | | | | | | |
|---------|--------|--------|------|---------------------|--------|------|
| RUN NO. | 330/ 0 | RN/L = | 4.96 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|---------|--------|--------|------|---------------------|--------|------|

[illegible]

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

AMES 118-1-11 OAI45A 01

(02F068) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SO.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETA = .000 ELEVON = .000
ATLIRON = .000 BOFLAP = .000
SPOBRK = 25.000 RUDDER = -5.000
RN/L = 5.000

RUN NO. 347/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|--------|--------|---------|--------|--------|----------|
| .797 | -4.994 | .01700 | .02040 | .01150 | .01980 | .00340 | .00830 | -6.26840 |
| .799 | .011 | .00850 | .02040 | .01150 | .01980 | .01190 | .00830 | -6.26840 |
| .800 | 2.065 | .01700 | .02040 | .01150 | .01980 | .00340 | .00830 | -6.26840 |
| .796 | 5.052 | .01700 | .02040 | .01150 | .01980 | .00340 | .00830 | -6.26840 |
| .796 | 7.101 | .00850 | .02040 | .00000 | .01980 | .01190 | .00830 | -6.26840 |
| .798 | 8.135 | .00850 | .02040 | .00000 | .01980 | .01190 | .01980 | -6.27870 |
| .796 | 10.194 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -6.26840 |
| .795 | 12.242 | .00850 | .01020 | .01150 | .01980 | .00850 | .00830 | -6.21710 |
| .792 | 15.322 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -6.20690 |
| GRADIENT | | -.00032 | .00000 | .00000 | -.00000 | .00032 | .00000 | .00000 |

RUN NO. 384/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|--------|--------|--------|---------|--------|---------|----------|
| .902 | -5.228 | .00000 | .00000 | .00000 | .01980 | .00000 | .01980 | -6.16590 |
| .904 | -.208 | .00000 | .01020 | .00000 | .01980 | .01020 | .01980 | -6.15560 |
| .900 | 1.824 | .00000 | .01020 | .00000 | .01980 | .01020 | .01980 | -6.28900 |
| .896 | 4.947 | .00000 | .01020 | .00000 | .01980 | .01020 | .01980 | -6.29920 |
| .900 | 7.010 | .00000 | .00000 | .00000 | .01980 | .00000 | .01980 | -6.25820 |
| .900 | 8.031 | .00850 | .01020 | .00000 | .01980 | .0170 | .01980 | -6.31970 |
| .899 | 10.072 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -6.31970 |
| .897 | 12.166 | .00000 | .00000 | .01150 | .01980 | .00000 | .00830 | -6.26840 |
| .901 | 15.221 | .00000 | .00000 | .01150 | .01980 | .00000 | .00830 | -6.30950 |
| GRADIENT | | .00000 | .00000 | .00000 | -.00000 | .00000 | -.00000 | -.02579 |

RUN NO. 411/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|--------|--------|--------|---------|--------|----------|
| .951 | -4.966 | .01700 | .01020 | .00000 | .04950 | -.00580 | .04950 | -6.51910 |
| .949 | .123 | .00000 | .01020 | .00000 | .04950 | .01020 | .04950 | -6.51910 |
| .951 | 2.163 | .00000 | .01020 | .00000 | .04950 | .01020 | .04950 | -6.51910 |
| .948 | 5.189 | .00000 | .01020 | .01150 | .04950 | .01020 | .03800 | -6.51000 |
| .949 | 7.280 | .00850 | .01020 | .00000 | .04950 | .00170 | .04950 | -6.51000 |
| .947 | 8.303 | .00850 | .01020 | .01150 | .04950 | .00170 | .03800 | -6.51000 |
| .944 | 10.361 | .00000 | .01020 | .01150 | .04950 | .01020 | .03800 | -6.51000 |
| .949 | 12.390 | .00000 | .01020 | .01150 | .04950 | .00000 | .03800 | -6.51000 |
| .948 | 15.423 | .00000 | .00000 | .01150 | .04950 | .00000 | .03800 | -6.51910 |
| GRADIENT | | -.00257 | .00000 | .00000 | .00000 | .00257 | .00000 | .00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1421

AMES 118-1-11 OAI45A 01

(02F066) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = -5.000
 RN/L = 5.000

RUN NO. 358/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|---------|--------|--------|---------|---------|----------|
| 1.101 | -5.075 | .03400 | .03060 | .00000 | .00990 | -.00340 | .00990 | -6.21710 |
| 1.101 | -.018 | .03400 | .02040 | .00000 | .00990 | -.01360 | .00990 | -6.21710 |
| 1.102 | 2.028 | .02550 | .01020 | .00000 | .00990 | -.01530 | .00990 | -6.21710 |
| 1.100 | 5.120 | .01700 | .02040 | .01150 | .00990 | .00340 | -.00160 | -6.20690 |
| 1.097 | 7.174 | .02550 | .02040 | .01150 | .00990 | -.00510 | -.00160 | -6.20690 |
| 1.097 | 8.209 | .02550 | .02040 | .00000 | .00990 | -.00510 | .00990 | -6.20690 |
| 1.095 | 10.240 | .01700 | .02040 | .01150 | .00990 | .00340 | -.00160 | -6.20690 |
| 1.093 | 12.259 | .02550 | .02040 | .01150 | .00990 | -.00510 | -.00160 | -6.20690 |
| 1.099 | 15.317 | .02550 | .02040 | .00000 | .00990 | -.00510 | .00990 | -6.20690 |
| GRADIENT | | -.00416 | -.00499 | .00000 | .00000 | -.00083 | .00000 | .00000 |

RUN NO. 364/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|---------|---------|--------|---------|---------|----------|
| 1.200 | -5.102 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | -6.22740 |
| 1.200 | -4.846 | .00850 | .03060 | .02300 | .00990 | .02210 | -.01310 | -6.22740 |
| 1.200 | -.057 | .00850 | .02040 | .02300 | .00990 | .01190 | -.01310 | -6.22740 |
| 1.198 | 2.512 | .00000 | .02040 | .01150 | .00990 | .02040 | -.00160 | -6.22740 |
| 1.198 | 5.186 | .00850 | .02040 | .02300 | .00990 | .01190 | -.01310 | -6.22740 |
| 1.196 | 7.158 | .00000 | .02040 | .02300 | .00990 | .02040 | -.01310 | -6.22740 |
| 1.199 | 8.199 | .00000 | .02040 | .01150 | .00990 | .02040 | -.00160 | -6.21710 |
| 1.198 | 10.271 | .00850 | .02040 | .02300 | .00990 | .01190 | -.01310 | -6.21710 |
| 1.199 | 12.262 | .00850 | .02040 | .02300 | .00990 | .01190 | -.01310 | -6.21710 |
| 1.198 | 15.287 | .00850 | .01020 | .01150 | .00990 | .01150 | -.00160 | -6.21710 |
| GRADIENT | | -.00101 | -.00148 | -.00136 | .00000 | -.00047 | .00136 | -.00000 |

RUN NO. 377/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|--------|--------|--------|--------|--------|---------|----------|
| 1.297 | -5.289 | .00850 | .02040 | .02300 | .01980 | .01190 | -.00320 | -6.08380 |
| 1.299 | -.381 | .00850 | .01020 | .01150 | .01980 | .00170 | -.00830 | -6.29920 |
| 1.296 | 2.284 | .00850 | .01020 | .02300 | .01980 | .00170 | -.00320 | -6.30950 |
| 1.294 | 4.753 | .00850 | .01020 | .02300 | .01980 | .00170 | -.00320 | -6.30950 |
| 1.293 | 6.872 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -6.30950 |
| 1.294 | 7.890 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -6.30950 |
| 1.292 | 10.031 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -6.30950 |
| 1.289 | 12.008 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -6.30950 |
| 1.289 | 15.076 | .00850 | .01020 | .02300 | .02970 | .00170 | .00670 | -6.30950 |
| GRADIENT | | .00000 | .00000 | .00227 | .00000 | .00000 | -.00227 | -.00203 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA
 AMES 118-1-11 0A145A 01

(02F066) (16 JUL 77)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = -5.000
 RN/L = 5.000

RUN NO. 373/ 0 RN/L = 4.88 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|--------|--------|---------|----------|
| 1.407 | -5.316 | .00850 | .01020 | .02300 | .01980 | .00170 | -.00320 | -6.18640 |
| 1.414 | -1.158 | .00000 | .01020 | .02300 | .01980 | .01020 | -.00320 | -6.18640 |
| 1.413 | 2.288 | .00000 | .01020 | .01150 | .01980 | .01020 | .00630 | -6.18640 |
| 1.412 | 4.793 | .00000 | .01020 | .02300 | .01980 | .01020 | -.00320 | -6.18640 |
| 1.409 | 6.848 | .00850 | .01020 | .02300 | .01980 | .00170 | -.00320 | -6.18640 |
| 1.407 | 7.896 | .00850 | .01020 | .02300 | .01980 | .00170 | -.00320 | -6.17610 |
| 1.403 | 10.038 | .00850 | .01020 | .02300 | .01980 | .00170 | -.00320 | -6.16590 |
| 1.398 | 12.044 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -6.15560 |
| 1.393 | 15.113 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -6.15560 |
| | GRADIENT | .00000 | .00000 | .00002 | .00000 | .00000 | -.00002 | -.00000 |

(02F067) (16 JUL 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = -5.000
 RN/L = 5.000

RUN NO. 327/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|---------|--------|--------|--------|----------|
| .597 | -6.035 | .00000 | .02040 | .02300 | .02970 | .02040 | .00670 | -6.21710 |
| .596 | -1.878 | .00000 | .02040 | .02300 | .02970 | .02040 | .00670 | -6.21710 |
| .597 | -.828 | .00000 | .02040 | .02300 | .02970 | .02040 | .00670 | -6.22740 |
| .597 | .042 | .00000 | .02040 | .02300 | .02970 | .02040 | .00670 | -6.22740 |
| .596 | .433 | .00000 | .02040 | .02300 | .02970 | .02040 | .00670 | -6.22740 |
| .596 | .939 | .00000 | .02040 | .02300 | .02970 | .02040 | .00670 | -6.22740 |
| .596 | 2.032 | .00000 | .02040 | .02300 | .02970 | .02040 | .00670 | -6.22740 |
| .596 | 3.092 | .00000 | .02040 | .02300 | .02970 | .02040 | .00670 | -6.22740 |
| .596 | 4.133 | .00000 | .02040 | .02300 | .02970 | .02040 | .00670 | -6.22740 |
| .596 | 6.186 | .00000 | .02040 | .02300 | .02970 | .02040 | .00670 | -6.22740 |
| | GRADIENT | .00000 | .00000 | -.00000 | .00000 | .00000 | .00000 | -.00105 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
ATLRON = .000 BDFLAP = .000
SPOBRK = 25.000 RUDDER = -5.000
RN/L = 5.000

RUN NO. 348/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|--------|---------|--------|--------|---------|--------|----------|
| .798 | -6.086 | .01700 | .02040 | .01150 | .01980 | .00340 | .00830 | -6.18640 |
| .799 | -1.873 | .01700 | .02040 | .01150 | .01980 | .00340 | .00830 | -6.19660 |
| .798 | -.799 | .01700 | .02040 | .01150 | .01980 | .00340 | .00830 | -6.20690 |
| .799 | .046 | .01700 | .02040 | .01150 | .01980 | .00340 | .00830 | -6.20690 |
| .799 | .461 | .01700 | .02040 | .01150 | .01980 | .00340 | .00830 | -6.20690 |
| .798 | 1.022 | .01700 | .02040 | .01150 | .01980 | .00340 | .00830 | -6.21710 |
| .800 | 2.083 | .01700 | .02040 | .01150 | .01980 | .00680 | .00830 | -6.21710 |
| .799 | 3.148 | .01700 | .01020 | .01150 | .01980 | .00680 | .00830 | -6.21710 |
| .799 | 4.189 | .01700 | .01020 | .01150 | .01980 | .00680 | .00830 | -6.22740 |
| .796 | 6.267 | .01700 | .01020 | .01150 | .01980 | .00680 | .00830 | -6.22740 |
| GRADIENT | | .00000 | -.00188 | .00000 | .00000 | -.00188 | .00000 | -.00330 |

RUN NO. 385/ 0 RN/L = 5.06 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|--------|---------|--------|---------|---------|---------|----------|
| .901 | -6.114 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -6.33000 |
| .903 | -1.973 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -6.33000 |
| .902 | -.920 | .00000 | .01020 | .00000 | .01980 | .01020 | .01980 | -6.34250 |
| .903 | .117 | .00000 | .01020 | .00000 | .01980 | .01020 | .01980 | -6.33000 |
| .902 | .665 | .00000 | .01020 | .00000 | .01980 | .01020 | .01980 | -6.35500 |
| .902 | 1.172 | .00000 | .00000 | .00000 | .01980 | .00000 | .01980 | -6.36750 |
| .900 | 2.251 | .00000 | .00000 | .01150 | .01980 | .00000 | .00830 | -6.39260 |
| .901 | 3.304 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -6.38000 |
| .901 | 4.351 | .00000 | .01020 | .00000 | .01980 | .01020 | .01980 | -6.40510 |
| .899 | 6.428 | .00000 | .00000 | .01150 | .01980 | .00000 | .00830 | -6.40510 |
| GRADIENT | | .00000 | -.00038 | .00008 | -.00000 | -.00038 | -.00008 | -.01233 |

RUN NO. 412/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|--------|--------|--------|---------|---------|----------|
| .951 | -6.107 | .01700 | .01020 | .01150 | .04950 | -.00680 | .03800 | -6.50090 |
| .950 | -1.939 | .01700 | .01020 | .01150 | .04950 | -.00680 | .03800 | -6.51910 |
| .950 | -.900 | .02550 | .01020 | .01150 | .04950 | -.01530 | .03800 | -6.52820 |
| .950 | .046 | .02550 | .01020 | .01150 | .04950 | -.01530 | .03800 | -6.52820 |
| .951 | .587 | .01700 | .01020 | .01150 | .04950 | -.00680 | .03800 | -6.52820 |
| .951 | 1.105 | .01700 | .01020 | .01150 | .04950 | -.00680 | .03800 | -6.53730 |
| .950 | 2.163 | .01700 | .01020 | .01150 | .04950 | -.00680 | .03800 | -6.54640 |
| .950 | 3.206 | .01700 | .01020 | .01150 | .04950 | -.00680 | .03800 | -6.54640 |
| .950 | 4.247 | .01700 | .01020 | .02300 | .04950 | -.00680 | .02650 | -6.56450 |
| .950 | 6.325 | .01700 | .01020 | .02300 | .04950 | -.00680 | .02650 | -6.56450 |
| GRADIENT | | -.00084 | .00000 | .00122 | .00000 | .00084 | -.00122 | -.00448 |

0A145 TABULATED FORCE DATA

(D2F067) (16 JUL 77)

DATE 10 MAR 80

AMES 118-1-11 0A145A 01

PARAMETRIC DATA

| | | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|-----|----|
| SREF | = | 2690.0000 | SO.FT. | XMRP | = | 1075.6800 | IN. | XO |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. | YO |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. | ZO |
| SCALE | = | .0500 | | | | | | |

REFERENCE DATA

| | | | | | |
|--------|---|--------|--------|---|--------|
| ALPHA | = | 5.000 | ELEVON | = | .000 |
| AILRON | = | .000 | BDFLAP | = | .000 |
| SPDRBK | = | 25.000 | RUDDER | = | -5.000 |
| RN/L | = | 5.000 | | | |

| MACH | BETA | ELV-L0 | ELV-L1 | ELV-R0 | ELV-R1 | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|--------|---------|---------|----------|
| 1.100 | -6.081 | .01700 | .02040 | .01150 | .00990 | .00340 | -.00160 | -6.17610 |
| 1.100 | -1.945 | .02550 | .02040 | .00000 | .00990 | -.00510 | .00990 | -6.18640 |
| 1.099 | -.905 | .03400 | .02040 | .00000 | .00990 | -.01360 | .00990 | -6.18640 |
| 1.100 | .168 | .01700 | .02040 | .00000 | .00990 | .00340 | .00990 | -6.19660 |
| 1.101 | .674 | .01700 | .02040 | .00000 | .00990 | .00340 | .00990 | -6.19660 |
| 1.100 | 1.182 | .02550 | .02040 | .01150 | .00990 | -.00510 | -.00160 | -6.19660 |
| 1.101 | 2.224 | .03400 | .02040 | .01150 | .00990 | -.01360 | .00160 | -6.20690 |
| 1.100 | 3.264 | .00850 | .02040 | .01150 | .00990 | .01190 | .00160 | -6.20690 |
| 1.100 | 4.302 | .01700 | .02040 | .01150 | .00390 | .00340 | -.00160 | -6.21710 |
| 1.100 | 6.367 | .01700 | .02040 | .01150 | .00990 | .00340 | .00160 | -6.23770 |
| 1.100 | GRADIENT | .01905 | .00000 | .00244 | .00000 | .00195 | -.00244 | -.00493 |

[illegible]

| MACH | BETA | ELV-L0 | ELV-L1 | ELV-R0 | ELV-R1 | DELL | DELR | DRHL |
|-------|----------|---------|--------|---------|--------|--------|---------|----------|
| 1.299 | -6.095 | .00850 | .01020 | .03450 | .01980 | .00170 | -.01470 | -6.14530 |
| 1.301 | -1.950 | .00850 | .01020 | .02300 | .02970 | .00170 | .00670 | -6.15560 |
| 1.299 | -.898 | .00850 | .01020 | .02300 | .01980 | .00170 | -.00320 | -6.16590 |
| 1.297 | .149 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -6.16590 |
| 1.296 | .656 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -6.16590 |
| 1.297 | 1.194 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -6.16590 |
| 1.297 | 2.257 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -6.15560 |
| 1.297 | 3.313 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -6.15560 |
| 1.296 | 4.356 | .00000 | .01020 | .01150 | .02970 | .01020 | .00830 | -6.13510 |
| 1.294 | 6.423 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -.00076 |
| | GRADIENT | -.00179 | .00000 | -.00188 | .00064 | .00179 | .00253 | .00076 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

(02F067) (16 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPOBRK = 25.000 RUDDER = -5.000
 RN/L = 5.000

RUN NO. 374/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|--------|--------|---------|--------|---------|----------|
| 1.410 | -6.161 | .00850 | .01020 | .02300 | .02970 | .00170 | .00670 | -6.25820 |
| 1.409 | -2.007 | .00850 | .01020 | .02300 | .02970 | .00170 | .00670 | -6.23770 |
| 1.405 | -.947 | .00850 | .01020 | .03450 | .01980 | .00170 | -.01470 | -6.24790 |
| 1.405 | .107 | .00850 | .01020 | .03450 | .01980 | .00170 | -.01470 | -6.25820 |
| 1.404 | .674 | .00850 | .01020 | .03450 | .01980 | .00170 | -.01470 | -6.24790 |
| 1.403 | 1.187 | .00850 | .01020 | .03450 | .01980 | .00170 | -.01470 | -6.24790 |
| 1.402 | 2.248 | .00850 | .01020 | .03450 | .01980 | .00170 | -.01470 | -6.19660 |
| 1.403 | 3.304 | .00850 | .01020 | .03450 | .01980 | .00170 | -.01470 | -6.14530 |
| 1.402 | 4.355 | .00850 | .01020 | .03450 | .01980 | .00170 | -.01470 | -6.06330 |
| 1.400 | 6.445 | .00850 | .01020 | .03450 | .01980 | .00170 | -.01470 | -.01331 |
| | GRADIENT | -.00000 | .00000 | .00113 | -.00097 | .00000 | -.00210 | |

AMES 118-1-11 OAI45A 01

(02F068) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPOBRK = 25.000 RUDDER = -22.800
 RN/L = 5.000

RUN NO. 328/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|---------|--------|--------|---------|-----------|
| .597 | -6.007 | .00000 | .02040 | .02300 | .02970 | .02040 | .00670 | -26.36300 |
| .597 | -1.850 | .00000 | .02040 | .02300 | .02970 | .02040 | .00670 | -26.35300 |
| .597 | -.803 | .00000 | .02040 | .02300 | .02970 | .02040 | .00670 | -26.34300 |
| .598 | .050 | .00000 | .02040 | .02300 | .01980 | .02040 | -.00320 | -26.33400 |
| .598 | .456 | .00000 | .02040 | .02300 | .01980 | .02040 | -.00320 | -26.31400 |
| .598 | .971 | .00000 | .02040 | .02300 | .01980 | .02040 | -.00320 | -26.31400 |
| .597 | 2.065 | .00000 | .02040 | .02300 | .01980 | .02040 | -.00320 | -26.30500 |
| .598 | 3.126 | .00000 | .02040 | .02300 | .01980 | .02040 | -.00320 | -26.30500 |
| .598 | 4.157 | .00000 | .02040 | .02300 | .03960 | .02040 | -.01660 | -26.29500 |
| .598 | 6.208 | .00000 | .02040 | .02300 | .01980 | .02040 | -.00320 | -26.28500 |
| | GRADIENT | .00000 | .00000 | -.00000 | .00055 | .00000 | .00055 | .00966 |

0A145 TABULATED FORCE DATA

AMES 118-1-11 0A145A 01

DATE 10 MAR 80

(02F068) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
AILRON = .000 BDLAP = .000
SPDRK = 25.000 RUDDER = -22.800
RN/L = 5.000

RUN NO. 389/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|---------|---------|-----------|
| .900 | -6.085 | .01700 | .01020 | .03450 | .01980 | -.00680 | -.01470 | -26.38200 |
| .901 | -1.905 | .01700 | .01020 | .03450 | .01980 | -.00680 | -.01470 | -26.39200 |
| .900 | -.868 | .01700 | .01020 | .03450 | .02970 | -.00680 | -.00480 | -26.37300 |
| .901 | .058 | .01700 | .01020 | .03450 | .02970 | -.00680 | -.00480 | -25.93500 |
| .900 | .586 | .01700 | .01020 | .03450 | .02970 | -.00680 | -.00480 | -26.30500 |
| .902 | 1.111 | .01700 | .01020 | .03450 | .02970 | -.00680 | -.00480 | -26.29500 |
| .899 | 2.182 | .01700 | .01020 | .03450 | .02970 | -.00680 | -.00480 | -26.31400 |
| .898 | 3.222 | .01700 | .01020 | .03450 | .02970 | -.00680 | -.00480 | -26.34300 |
| .897 | 4.264 | .01700 | .01020 | .03450 | .02970 | -.00680 | -.00480 | -26.00300 |
| .896 | 6.339 | .01700 | .01020 | .03450 | .03960 | -.00680 | -.00510 | -26.39200 |
| | GRADIENT | .00000 | .00000 | .00000 | .00099 | -.00000 | .00099 | .02953 |

RUN NO. 366/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|---------|---------|---------|---------|---------|-----------|
| 1.201 | -6.039 | .00000 | .02040 | .03450 | .00990 | .02040 | -.02460 | -26.41200 |
| 1.200 | -1.911 | .00000 | .02040 | .02300 | .00990 | .02040 | -.01310 | -26.43100 |
| 1.199 | -.866 | .00000 | .02040 | .02300 | .00990 | .02040 | -.01310 | -26.42100 |
| 1.198 | .204 | .00000 | .02040 | .02300 | .00990 | .02040 | -.01310 | -26.42100 |
| 1.200 | .675 | .00000 | .02040 | .02300 | .00990 | .02040 | -.02300 | -26.43100 |
| 1.200 | 1.186 | .00000 | .02040 | .02300 | .00990 | .02040 | -.02300 | -26.43100 |
| 1.201 | 2.228 | .00850 | .01020 | .01150 | .00990 | .00170 | -.00160 | -26.44100 |
| 1.199 | 3.267 | .00000 | .01020 | .01150 | .00990 | .01020 | -.00160 | -26.44100 |
| 1.197 | 4.303 | .00000 | .01020 | .01150 | .00990 | .01020 | -.00160 | -26.45100 |
| 1.197 | 6.371 | .00000 | .01020 | .01150 | .00990 | -.00275 | .00242 | -.00273 |
| | GRADIENT | .00060 | -.00216 | -.00244 | -.00002 | -.00275 | .00242 | -.00273 |

RUN NO. 375/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|---------|--------|---------|---------|-----------|
| 1.402 | -6.101 | .00000 | .01020 | .03450 | .01980 | .01020 | -.01470 | -26.41200 |
| 1.408 | -1.935 | .00000 | .01020 | .03450 | .01980 | .01020 | -.01470 | -26.42100 |
| 1.407 | -.888 | .00000 | .01020 | .03450 | .01980 | .01020 | -.01470 | -26.42100 |
| 1.405 | .190 | .00000 | .01020 | .03450 | .01980 | .01020 | -.01470 | -26.42100 |
| 1.404 | .673 | .00000 | .01020 | .03450 | .01980 | .01020 | -.01470 | -26.42100 |
| 1.404 | 1.211 | .00000 | .01020 | .03450 | .01980 | .01020 | -.01470 | -26.42100 |
| 1.403 | 2.269 | .00000 | .01020 | .03450 | .01980 | .01020 | -.01470 | -26.43100 |
| 1.402 | 3.318 | .00000 | .01020 | .03450 | .01980 | .01020 | -.01470 | -26.43100 |
| 1.402 | 4.370 | .00850 | .01020 | .00000 | .02970 | .00170 | .02970 | -26.42100 |
| 1.399 | 6.454 | .00850 | .01020 | .00000 | .02970 | .00170 | .02970 | -26.42100 |
| | GRADIENT | .00088 | .00000 | -.00357 | .00102 | -.00088 | .00459 | -.00173 |

(D2F069) (16 JUL 77)

REFERENCE DATA

| | | | | | | | | | | | |
|------|---|-------------------|------|---|------------------|--|--------|---|-------------|---|--------|
| SREF | = | 2690 .0000 SQ.FT. | XMRP | = | 1076.6800 IN. X0 | | ALPHA | = | .000 BETA | = | 5.000 |
| LREF | = | 474.8100 INCHES | YMRP | = | .0000 IN. Y0 | | ELEVON | = | .000 AIRLON | = | .000 |
| BREF | = | 936.6800 INCHES | ZMRP | = | 375.0000 IN. Z0 | | BDELAP | = | .000 SPDBRK | = | 25.000 |
| CALF | = | 0500 | | | | | RN/L | = | 5.000 | | |

PARAMETRIC DATA

ALPHA -
ELEVON -
BDFLAP -
RN/L -

| | | | |
|---------|--------|-------------|---------------------------------|
| RUN NO. | 322/ 0 | RN/L = 4.97 | GRADIENT INTERVAL = -5.00/ 5.00 |
|---------|--------|-------------|---------------------------------|

[illegible]

| | | | | | | |
|---------|--------|--------|------|---------------------|--------|------|
| RUN NO. | 349/ 0 | RN/L = | 4.96 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|---------|--------|--------|------|---------------------|--------|------|

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|--------|--------|--------|--------|---------|--------|-----------|
| .901 | -15.347 | .01700 | .01020 | .00000 | .01980 | -.00680 | .01980 | -18.48800 |
| .903 | -10.323 | .01700 | .01020 | .00000 | .01980 | -.00680 | .01980 | -12.51200 |
| .902 | -5.110 | .01700 | .01020 | .00000 | .01980 | -.00680 | .01980 | -6.21710 |
| .901 | -2.522 | .01700 | .01020 | .00000 | .01980 | -.00680 | .01980 | -3.07180 |
| .901 | .000 | .01700 | .01020 | .00000 | .01980 | -.00680 | .01980 | .00000 |
| .902 | 2.491 | .01700 | .01020 | .00000 | .01980 | -.00680 | .01980 | 3.03330 |
| .902 | 4.873 | .01700 | .01020 | .00000 | .01980 | -.00680 | .01980 | 5.92920 |
| .902 | 9.576 | .01700 | .01020 | .00000 | .01980 | -.00680 | .01980 | 11.61400 |
| .901 | 14.614 | .01700 | .01020 | .00000 | .01980 | -.00680 | .01980 | 17.62300 |
| .901 | 18.271 | .01700 | .02040 | .00000 | .01980 | .00340 | .01980 | 21.91200 |
| .901 | 22.873 | .01700 | .02040 | .00000 | .01980 | .00340 | .01980 | 27.20100 |
| GRADIENT | | .00000 | .00000 | .00000 | .00000 | -.00000 | .00000 | 1.21730 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(02F070) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPOBRK = .000 RUDDER = .000
RN/L = 5.000

RUN NO. 623/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|--------|---------|---------|--------|---------|---------|---------|
| .951 | -5.265 | .00850 | .01020 | .02300 | .02970 | .00170 | .00670 | -.13360 |
| .950 | -1.104 | .00000 | .01020 | .03450 | .01980 | .01020 | -.01470 | -.13360 |
| .951 | 2.447 | .00000 | .01020 | .03450 | .02970 | .01020 | -.00480 | -.13360 |
| .951 | 4.941 | .00000 | .01020 | .02300 | .01980 | .01020 | -.00320 | -.12540 |
| .950 | 6.982 | .00000 | .01020 | .00000 | .01980 | .01020 | .01980 | -.13360 |
| .950 | 8.013 | .00000 | .01020 | .03450 | .01980 | .01020 | -.01470 | -.12540 |
| .951 | 10.043 | .00000 | .01020 | .02300 | .02970 | .01020 | .00670 | -.12540 |
| .949 | 12.030 | .00850 | .01020 | .02300 | .02970 | .00170 | .00670 | -.12540 |
| .950 | 15.010 | .00000 | .01020 | .03450 | .02970 | .01020 | -.00480 | -.11710 |
| GRADIENT | | .00000 | -.00000 | -.00227 | .00001 | -.00000 | .00229 | .00162 |

RUN NO. 622/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|---------|--------|--------|---------|---------|---------|
| 1.101 | -5.091 | .03400 | .01020 | .03450 | .01980 | -.02380 | -.01470 | -.13360 |
| 1.103 | -.021 | .03400 | .01020 | .03450 | .01980 | -.02380 | -.01470 | -.13360 |
| 1.102 | 2.488 | .00000 | .01020 | .03450 | .01980 | .01020 | -.01470 | -.13360 |
| 1.101 | 5.039 | .00000 | .01020 | .03450 | .01980 | .01020 | -.01470 | -.13360 |
| 1.101 | 7.054 | .00000 | .01020 | .03450 | .01980 | .01020 | -.01470 | -.13360 |
| 1.102 | 8.035 | .00000 | .01020 | .03450 | .01980 | .01020 | -.01470 | -.13360 |
| 1.101 | 10.034 | .00000 | .01020 | .03450 | .01980 | .01020 | -.01470 | -.13360 |
| 1.098 | 12.044 | .00000 | .01020 | .03450 | .01980 | .01020 | -.01470 | -.13360 |
| 1.098 | 15.046 | .00000 | .01020 | .03450 | .01980 | .01020 | -.01470 | -.13360 |
| GRADIENT | | -.01355 | -.00000 | .00000 | .00000 | .01355 | .00000 | .00000 |

RUN NO. 609/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|---------|--------|---------|---------|---------|---------|
| 1.203 | -5.074 | .02550 | .01020 | .02300 | .00990 | -.01530 | -.01310 | -.12540 |
| 1.201 | -.068 | .00850 | .01020 | .00000 | .00990 | .00170 | .00990 | -.12540 |
| 1.200 | 2.489 | .00850 | .01020 | .02300 | .00990 | .00170 | -.01310 | -.12540 |
| 1.201 | 4.946 | .00850 | .01020 | .02300 | .00990 | .00170 | -.01310 | -.12540 |
| 1.199 | 7.017 | .00850 | .01020 | .02300 | .00990 | .00170 | -.01310 | -.12540 |
| 1.198 | 8.065 | .00850 | .01020 | .01150 | .00990 | .00170 | -.00160 | -.12540 |
| 1.201 | 10.011 | .00000 | .01020 | .01150 | .00990 | .01020 | -.00160 | -.12540 |
| 1.201 | 11.969 | .00000 | .01020 | .00000 | .00990 | .01020 | .00990 | -.12540 |
| 1.201 | 14.954 | .00000 | .01020 | .01150 | .00990 | .01020 | -.00160 | -.12540 |
| GRADIENT | | -.00000 | -.00000 | .00462 | -.00000 | -.00000 | -.00462 | .00000 |

(02F070) (08 JUL 77)

AMES 118-1-11 0A145A 01

PARAMETRIC DATA

| | | | | | |
|--------|---|-------|--------|---|------|
| BETA | = | .000 | ELEVON | = | .000 |
| AILRON | = | .000 | BOFLAP | = | .000 |
| SPOBRK | = | .000 | RUDDER | = | .000 |
| RN/L | = | 5.000 | | | |

REFERENCE DATA

| | | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|-----|----|
| SREF | = | 2690.0000 | SQ.FT. | YMRP | = | 1076.6800 | IN. | X0 |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. | Y0 |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. | Z0 |
| SCALE | = | .0500 | | | | | | |

| | | | | | | | |
|--|------|------|------|---|---|----|---------------------------------|
| | CONV | CORR | PW/1 | = | 4 | 06 | GRADIENT INTERVAL = -5.00/ 5.00 |
|--|------|------|------|---|---|----|---------------------------------|

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|--------|---------|--------|---------|---------|---------|---------|----------|
| 1.399 | -5.046 | .01700 | .02040 | .00000 | .00990 | .00340 | .00990 | - .11710 |
| 1.404 | | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | - .11710 |
| 1.405 | -.022 | .00000 | .02040 | .00000 | .00990 | .01190 | .00990 | - .11710 |
| 1.401 | 2.505 | .00850 | .02040 | .00000 | .00990 | .01190 | .00990 | - .11710 |
| 1.401 | 5.096 | .00850 | .02040 | .00000 | .00990 | .02040 | .00990 | - .11710 |
| 1.399 | 7.119 | .00000 | .02040 | .00000 | .00990 | .02040 | .00990 | - .11710 |
| 1.401 | 8.153 | .00000 | .02040 | .00000 | .00990 | .02040 | .00990 | - .11710 |
| 1.399 | 10.183 | .00000 | .02040 | .01150 | .00990 | .02040 | -.00160 | - .11710 |
| 1.401 | 12.206 | .00000 | .02040 | .00000 | .01980 | .02040 | .01980 | - .11710 |
| 1.399 | 15.225 | .00000 | .02040 | .00000 | .01980 | .03050 | .01980 | - .11710 |
| | 19.125 | -.00326 | .00000 | -.00455 | -.00392 | -.00336 | .00063 | .00000 |

(D2F071) (08 JUL 77)

AMES 118-1-11 0A145A 01

PARAMETRIC DATA

| | | | | | |
|--------|---|-------|--------|---|------|
| BETA | = | 2.000 | ELEVON | = | .000 |
| AILRON | = | .000 | BDFLAP | = | .000 |
| SPOBRK | = | .000 | RUDDER | = | .000 |
| RN/L | = | 5.000 | | | |

REFERENCE DATA

| | | | | | | | |
|---|-----------|--------|------|---|-----------|-----|----|
| = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. | XO |
| = | 474.8100 | INCHES | YMRP | = | .0000 | IN. | YO |
| = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. | ZO |
| = | .0500 | SCALE | | | | | |

| | | | | |
|--------|------|---------------------|--------|------|
| 992/ 0 | 5.02 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|--------|------|---------------------|--------|------|

[illegible]

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(02F071) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = .000 RUDDER = .000
 RN/L = 5.000

RUN NO. 883/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|--------|--------|--------|--------|--------|--------|---------|
| .800 | -5.269 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -.15000 |
| .800 | -.254 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -.15000 |
| .800 | 2.307 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -.15000 |
| .798 | 4.928 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -.15000 |
| .800 | 8.056 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -.12540 |
| .802 | 10.090 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -.10890 |
| .797 | 12.103 | .00000 | .03060 | .01150 | .02970 | .03060 | .01820 | -.14180 |
| .794 | 15.117 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | -.11710 |
| .800 | 17.088 | .00850 | .02040 | .01150 | .02970 | .01190 | .01820 | -.06790 |
| .798 | 19.033 | .01700 | .02040 | .02300 | .02970 | .00340 | .00670 | -.10070 |
| GRADIENT | | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 |

RUN NO. 884/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|--------|--------|---------|--------|---------|--------|---------|
| .900 | -5.277 | .00850 | .03060 | .02300 | .02970 | .02210 | .00670 | -.10890 |
| .900 | -.267 | .00850 | .03060 | .02300 | .02970 | .02210 | .00670 | -.10070 |
| .902 | 2.326 | .00850 | .03060 | .02300 | .02970 | .02210 | .00670 | -.05960 |
| .901 | 4.934 | .01700 | .03060 | .01150 | .02970 | .01360 | .01820 | -.05140 |
| .899 | 8.069 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -.08430 |
| .901 | 10.114 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -.05140 |
| .900 | 12.150 | .00850 | .02040 | .01150 | .02970 | .01190 | .01820 | -.04320 |
| .901 | 15.130 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.06790 |
| .901 | 17.119 | .01700 | .02040 | .02300 | .02970 | .00340 | .00670 | -.03500 |
| .903 | 19.079 | .00850 | .02040 | .02300 | .02970 | .01190 | .00670 | -.11710 |
| GRADIENT | | .00164 | .00000 | -.00221 | .00000 | -.00164 | .00221 | .00947 |

RUN NO. 885/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|---------|---------|--------|---------|--------|---------|
| .950 | -5.254 | .00850 | .03060 | .02300 | .02970 | .02210 | .00670 | -.12540 |
| .948 | -.303 | .00850 | .03060 | .02300 | .02970 | .02210 | .00670 | -.12540 |
| .951 | 2.290 | .01700 | .03060 | .02300 | .02970 | .01360 | .00670 | -.12540 |
| .952 | 4.944 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -.12540 |
| .952 | 8.092 | .01700 | .03060 | .01150 | .02970 | .01360 | .01820 | -.10070 |
| .952 | 10.143 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -.12540 |
| .950 | 12.153 | .00850 | .02040 | .01150 | .02970 | .01190 | .01820 | -.10890 |
| .950 | 15.165 | .00850 | .02040 | .01150 | .02970 | .01190 | .01820 | -.10890 |
| .951 | 17.120 | .00850 | .02040 | .01150 | .02970 | .01190 | .01820 | -.10890 |
| .950 | 19.066 | .02550 | .02040 | .01150 | .02970 | -.00510 | .01820 | -.10070 |
| GRADIENT | | -.00001 | -.00000 | -.00220 | .00000 | .00001 | .00220 | .00000 |

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OAI45 TABULATED FORCE DATA

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(02F072) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
AILRON = .000 BOFLAP = .000
SPDBRK = .000 RUDDER = .000
RN/L = 5.000

RUN NO. 645/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | | | | | |
|------|----------|--------|--------|--------|--------|---------|--------|---------|
| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
| .599 | -6.190 | .01700 | .01020 | .00000 | .01980 | -.00680 | .01980 | -.12540 |
| .598 | -2.097 | .02550 | .01020 | .00000 | .01980 | -.01530 | .01980 | -.13360 |
| .597 | -1.053 | .02550 | .01020 | .00000 | .01980 | -.01530 | .01980 | -.13360 |
| .597 | .019 | .02550 | .01020 | .00000 | .01980 | -.01530 | .01980 | -.13360 |
| .597 | .537 | .02550 | .01020 | .00000 | .01980 | -.01530 | .01980 | -.14180 |
| .597 | 1.056 | .02550 | .01020 | .00000 | .01980 | -.01530 | .01980 | -.13360 |
| .597 | 2.113 | .02550 | .01020 | .00000 | .01980 | -.01530 | .01980 | -.14180 |
| .597 | 3.153 | .02550 | .01020 | .00000 | .01980 | -.01530 | .01980 | -.14180 |
| .597 | 4.186 | .02550 | .01020 | .00000 | .01980 | -.01530 | .01980 | -.14180 |
| .597 | 6.244 | .02550 | .01020 | .00000 | .01980 | -.01530 | .01980 | -.14180 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | -.00000 | .00000 | -.00159 |

RUN NO. 633/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | | | | | |
|------|----------|---------|--------|--------|--------|---------|--------|---------|
| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
| .903 | -6.258 | .01700 | .01020 | .01150 | .03960 | -.00680 | .02810 | -.08430 |
| .902 | -2.120 | .00850 | .01020 | .01150 | .03960 | -.00170 | .02810 | -.09250 |
| .903 | -1.061 | .01700 | .01020 | .01150 | .03960 | -.00680 | .02810 | -.13360 |
| .900 | .023 | .01700 | .01020 | .01150 | .03960 | -.00680 | .02810 | -.13360 |
| .900 | .545 | .01700 | .01020 | .01150 | .03960 | -.00170 | .02810 | -.13360 |
| .899 | 1.059 | .00850 | .01020 | .01150 | .03960 | .00170 | .02810 | -.14180 |
| .899 | 2.137 | .00850 | .01020 | .01150 | .03960 | .00170 | .02810 | -.14180 |
| .899 | 3.189 | .00850 | .01020 | .01150 | .03960 | .00170 | .02810 | -.14180 |
| .899 | 4.232 | .00850 | .01020 | .01150 | .03960 | .00170 | .02810 | -.14180 |
| .897 | 6.311 | .00850 | .01020 | .01150 | .03960 | .00170 | .02810 | -.14180 |
| | GRADIENT | -.00034 | .00000 | .00000 | .00000 | .00094 | .00000 | -.00842 |

RUN NO. 626/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | | | | | |
|------|----------|--------|--------|--------|--------|---------|---------|---------|
| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
| .949 | -6.264 | .02550 | .01020 | .02300 | .01980 | -.01530 | -.00320 | -.12540 |
| .954 | -2.114 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -.13360 |
| .951 | -1.058 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -.13360 |
| .950 | .024 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -.13360 |
| .950 | .545 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -.13360 |
| .951 | 1.067 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -.13360 |
| .950 | 2.135 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -.13360 |
| .950 | 3.186 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -.13360 |
| .949 | 4.233 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -.13360 |
| .946 | 6.317 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -.13360 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | -.00000 | .00000 | -.00000 |

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(02F072) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500
 ALPHA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = .000 RUDDER = .000
 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 614/ 0 RN/L = 5.06 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|--------|--------|---------|---------|---------|---------|
| 1.203 | -6.264 | .02550 | .01020 | .04600 | .01980 | -.01530 | -.02620 | -.10890 |
| 1.206 | -2.118 | .02550 | .01020 | .03450 | .01980 | -.01530 | -.01470 | -.10890 |
| 1.203 | -1.060 | .02550 | .01020 | .03450 | .01980 | -.01530 | -.01470 | -.10890 |
| 1.203 | .023 | .03400 | .01020 | .04600 | .01980 | -.02380 | -.02620 | -.10890 |
| 1.202 | .543 | .04250 | .01020 | .04600 | .01980 | -.03230 | -.02620 | -.10890 |
| 1.202 | 1.066 | .02550 | .01020 | .04600 | .01980 | -.01530 | -.02620 | -.10890 |
| 1.203 | 2.133 | .00000 | .01020 | .04600 | .01980 | .01020 | -.02620 | -.10890 |
| 1.203 | 3.186 | .00000 | .01020 | .04600 | .01980 | .01020 | -.02620 | -.10890 |
| 1.203 | 4.234 | .00000 | .01020 | .04600 | .01980 | .01020 | -.02620 | -.10890 |
| 1.198 | 6.321 | .00000 | .01020 | .04600 | .01980 | .01020 | -.02620 | -.11710 |
| | GRADIENT | -.00578 | .00000 | .00188 | -.00000 | .00578 | -.00188 | -.00000 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500
 ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = .000 RUDDER = .000
 RN/L = 5.000

PARAMETRIC DATA

AMES 118-1-11 OAI45A 01

(02F073) (08 JUL 77)

RUN NO. 646/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|---------|---------|---------|---------|
| .597 | -6.049 | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | -.12540 |
| .597 | -1.927 | .01700 | .01020 | .00000 | .04950 | -.00680 | .04950 | -.12540 |
| .598 | -.879 | .01700 | .01020 | .00000 | .04950 | -.00680 | .04950 | -.13360 |
| .598 | .026 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -.13360 |
| .598 | .503 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -.13360 |
| .598 | 1.024 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -.13360 |
| .598 | 2.095 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -.14180 |
| .598 | 3.143 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -.14180 |
| .598 | 4.177 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -.14180 |
| .598 | 6.236 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -.14180 |
| | GRADIENT | .00000 | .00000 | .00000 | -.00164 | -.00000 | -.00164 | -.00261 |

OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

DATE 10 MAR 80

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
AILLON = .000 BDFLAP = .000
SPDRK = .000 RUDDER = .000
RN/L = 5.000

RUN NO. 660/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|---------|--------|---------|
| .799 | -6.105 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.09250 |
| .801 | -1.953 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.09250 |
| .799 | -.912 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.10890 |
| .800 | .038 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.10890 |
| .799 | .664 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.11710 |
| .799 | 1.166 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.12540 |
| .799 | 2.204 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -.12540 |
| .799 | 3.246 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.12540 |
| .799 | 4.286 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.12540 |
| .799 | 6.353 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.14180 |
| .797 | GRADIENT | .00389 | .00000 | .00000 | .00000 | -.00389 | .00000 | -.00503 |

RUN NO. 634/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|---------|---------|---------|
| .999 | -6.153 | .02550 | .01020 | .00000 | .03960 | -.01530 | .03960 | -.13360 |
| .902 | -2.033 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -.13360 |
| .900 | -.992 | .00850 | .01020 | .00000 | .03960 | .00170 | .03960 | -.13360 |
| .900 | .096 | .00850 | .01020 | .00000 | .03960 | .00170 | .03960 | -.13360 |
| .899 | .580 | .00850 | .01020 | .00000 | .03960 | .00170 | .03960 | -.13360 |
| .900 | 1.102 | .01700 | .01020 | .01150 | .03960 | -.00680 | .02810 | -.13360 |
| .899 | 2.146 | .01700 | .01020 | .01150 | .03960 | -.00680 | .02810 | -.13360 |
| .899 | 3.184 | .01700 | .01020 | .01150 | .03960 | -.00680 | .02810 | -.13360 |
| .899 | 4.225 | .01700 | .01020 | .02300 | .03960 | -.00680 | .01660 | -.13360 |
| .896 | 6.313 | .00850 | .01020 | .01150 | .03960 | .00170 | .02810 | -.14180 |
| | GRADIENT | .00095 | .00000 | .00364 | .00000 | -.00095 | -.00364 | -.00000 |

RUN NO. 627/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|---------|--------|--------|--------|---------|
| .951 | -6.176 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.12540 |
| .951 | -2.041 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.12540 |
| .951 | -.992 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.13360 |
| .950 | .069 | .00000 | .01020 | .00000 | .01980 | .01020 | .01980 | -.13360 |
| .950 | .564 | .00000 | .01020 | .00000 | .01980 | .01020 | .01980 | -.13360 |
| .950 | 1.097 | .00000 | .01020 | .00000 | .01980 | .01020 | .01980 | -.13360 |
| .950 | 2.146 | .00000 | .01020 | .00000 | .01980 | .01020 | .01980 | -.13360 |
| .950 | 3.184 | .00000 | .01020 | .00000 | .01980 | .01020 | .01980 | -.13360 |
| .951 | 4.226 | .00000 | .01020 | .00000 | .01980 | .01020 | .01980 | -.13360 |
| .950 | 6.315 | .00000 | .01020 | .00000 | .01980 | .01020 | .01980 | -.13360 |
| .947 | GRADIENT | .00000 | .00000 | -.00190 | .00000 | .00000 | .00190 | -.00082 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

AMES 118-1-11 0A145A 01

PAGE 1435

(02F073) (08 JUL 77)

REFERENCE DATA

| | | | | | | | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|-----|----|---|--------|--------|---|--------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. | XO | = | 5.0000 | ELEVON | = | .0000 |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. | YO | = | .0000 | BOFLAP | = | .0000 |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. | ZO | = | .0000 | RUDDER | = | .0000 |
| SCALE | = | .0500 | | | | | | | | | RN/L | = | 5.0000 |

PARAMETRIC DATA

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|--------|---------|---------|---------|---------|---------|
| 1.102 | -6.064 | .00000 | .01020 | .03450 | .01980 | .01020 | -.01470 | -.13360 |
| 1.101 | -1.961 | .00000 | .01020 | .03450 | .01980 | .01020 | -.01470 | -.14180 |
| 1.101 | -.920 | .00850 | .01020 | .03450 | .01980 | .00170 | -.01470 | -.14180 |
| 1.100 | .152 | .02550 | .01020 | .02300 | .01980 | -.01530 | -.00320 | -.14180 |
| 1.101 | .649 | .04250 | .01020 | .02300 | .01980 | -.03230 | -.00320 | -.14180 |
| 1.101 | 1.167 | .02550 | .01020 | .02300 | .01980 | -.01530 | -.00320 | -.14180 |
| 1.101 | 2.215 | .03400 | .01020 | .02300 | .02970 | -.02380 | .00670 | -.14180 |
| 1.100 | 3.260 | .02550 | .01020 | .02300 | .01980 | -.01530 | -.00320 | -.14180 |
| 1.099 | 4.295 | .03400 | .01020 | .02300 | .02970 | -.02380 | .00670 | -.14180 |
| 1.100 | 6.360 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -.14180 |
| GRADIENT | .00461 | -.00191 | .00000 | -.00139 | -.00461 | | | -.00000 |

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|--------|---------|---------|---------|
| 1.203 | -6.173 | .01700 | .01020 | .04600 | .01980 | -.00680 | -.02620 | -.12540 |
| 1.204 | -2.065 | .01700 | .01020 | .03450 | .01980 | -.00680 | -.01470 | -.12540 |
| 1.200 | -1.017 | .01700 | .01020 | .03450 | .01980 | -.00680 | -.01470 | -.12540 |
| 1.200 | .041 | .02550 | .01020 | .03450 | .00990 | -.01530 | -.02460 | -.12540 |
| 1.203 | .553 | .02550 | .01020 | .03450 | .01980 | -.01530 | -.01470 | -.12540 |
| 1.204 | 1.083 | .02550 | .01020 | .03450 | .01980 | -.01530 | -.01470 | -.12540 |
| 1.202 | 2.123 | .03400 | .01020 | .03450 | .01980 | -.02380 | -.01470 | -.12540 |
| 1.204 | 3.165 | .04250 | .01020 | .03450 | .01980 | -.03230 | -.01470 | -.12540 |
| 1.201 | 4.215 | .05950 | .01020 | .03450 | .01980 | -.04930 | -.01470 | -.12540 |
| 1.200 | 6.312 | .01700 | .01020 | .03450 | .01980 | -.00680 | -.01470 | -.12540 |
| 1.200 | GRADIENT | .00642 | .00000 | .00000 | .00031 | -.00642 | -.00031 | .00000 |

| MACH | BETA | ELV-L0 | ELV-L1 | ELV-R0 | ELV-R1 | DELL | DELR | DRHL |
|-------|----------|--------|--------|---------|--------|---------|--------|---------|
| 1.403 | -6.103 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -.12540 |
| 1.404 | -1.978 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -.12540 |
| 1.403 | -.932 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -.12540 |
| 1.405 | .145 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -.12540 |
| 1.404 | .638 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -.12540 |
| 1.403 | 1.161 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.12540 |
| 1.402 | 2.220 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.12540 |
| 1.404 | 3.275 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.12540 |
| 1.402 | 4.319 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.12540 |
| 1.400 | 6.398 | .03400 | .01020 | .01150 | .01980 | -.02380 | .00830 | -.12540 |
| | GRADIENT | .00179 | .00000 | -.00000 | .00000 | -.00179 | .00000 | .00000 |

0A145 TABULATED FORCE DATA
AMES 118-1-11 0A145A 01

DATE 10 MAR 80

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = .000
AILRON = .000 BOFLAP = .000
SPOBRK = .000 RUDDER = .000
RN/L = 5.000

RUN NO. 647/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|--------|--------|---------|---------|---------|---------|
| .600 | -6.060 | .03400 | .01020 | .00000 | .04950 | -.02380 | .04950 | -.11710 |
| .600 | -1.994 | .02550 | .01020 | .00000 | .04950 | -.01530 | .04950 | -.13360 |
| .599 | -.971 | .02550 | .01020 | .00000 | .04950 | -.01530 | .04950 | -.13360 |
| .600 | .062 | .02550 | .01020 | .00000 | .04950 | -.01530 | .04950 | -.13360 |
| .600 | .559 | .02550 | .01020 | .01150 | .04950 | -.01530 | .03800 | -.13360 |
| .600 | 1.061 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -.13360 |
| .600 | 2.095 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.13360 |
| .600 | 3.126 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.13360 |
| .599 | 4.167 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -.13360 |
| .599 | 6.235 | .00850 | .01020 | .01150 | .00499 | .00366 | -.00729 | -.00058 |
| | GRADIENT | -.00366 | .00000 | .00230 | -.00499 | .00366 | -.00729 | -.00058 |

RUN NO. 635/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|--------|--------|--------|---------|---------|---------|
| .899 | -6.125 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -.12540 |
| .900 | -2.024 | .01700 | .01020 | .01150 | .00000 | -.00680 | -.01150 | -.13360 |
| .900 | -.990 | .01700 | .01020 | .01150 | .00000 | -.00680 | -.01150 | -.13360 |
| .898 | .055 | .00850 | .01020 | .01150 | .00000 | .00170 | -.01150 | -.13360 |
| .900 | .558 | .00000 | .01020 | .01150 | .00000 | .01020 | -.01150 | -.13360 |
| .899 | 1.067 | .00000 | .01020 | .01150 | .00000 | .01020 | -.01150 | -.13360 |
| .899 | 2.119 | .00000 | .01020 | .01150 | .00000 | .01020 | -.01150 | -.13360 |
| .899 | 3.162 | .00000 | .01020 | .01150 | .00000 | .01020 | -.01150 | -.13360 |
| .898 | 4.220 | .00000 | .01020 | .01150 | .00000 | .01020 | -.01150 | -.13360 |
| .898 | 6.306 | .01700 | .01020 | .01150 | .00000 | -.00680 | -.01150 | -.13360 |
| | GRADIENT | -.00309 | .00000 | .00000 | .00000 | .00309 | -.00000 | -.00000 |

RUN NO. 628/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|---------|--------|---------|
| .951 | -6.159 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.11710 |
| .951 | -2.045 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -.11710 |
| .949 | -1.005 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -.12540 |
| .950 | .046 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -.13360 |
| .950 | .553 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -.13360 |
| .951 | 1.066 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -.13360 |
| .949 | 2.120 | .03400 | .01020 | .01150 | .01980 | -.02380 | .00830 | -.12540 |
| .950 | 3.169 | .03400 | .01020 | .01150 | .01980 | -.02380 | .00830 | -.12540 |
| .950 | 4.229 | .03400 | .01020 | .01150 | .01980 | -.02380 | .00830 | -.12540 |
| .947 | 6.318 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.13360 |
| | GRADIENT | .00179 | .00000 | .00000 | .00000 | -.00179 | .00000 | -.00075 |

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0A145 TABULATED FORCE DATA

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(D2F074) (08 JUL 77)

REFERENCE DATA

| | | | | | | | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|--------|--------|---|--------|---------|---|------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. X0 | ALPHA | = | 10.000 | ELEVON | = | .000 |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. Y0 | AILRON | = | .000 | BDF LAP | = | .000 |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. Z0 | SPDBRK | = | .000 | RUDDER | = | .000 |
| SCALE | = | .0500 | | | | | | RN/L | = | 5.000 | | | |

PARAMETRIC DATA

| | | | | | | | |
|---------|--------|--------|------|----------|------------|--------|------|
| RUN NO. | 615/ 0 | RN/L = | 5.05 | GRADIENT | INTERVAL = | -5.00/ | 5.00 |
|---------|--------|--------|------|----------|------------|--------|------|

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|---------|--------|--------|---------|---------|---------|
| 1.201 | -6.128 | .00000 | .02040 | .04600 | .01980 | .02040 | -.02620 | -.11710 |
| 1.206 | -2.044 | .00000 | .02040 | .03450 | .01980 | .02040 | -.01470 | -.12540 |
| 1.202 | -1.005 | .00000 | .02040 | .03450 | .01980 | .02040 | -.01470 | -.12540 |
| 1.202 | .046 | .00000 | .02040 | .03450 | .01980 | .02040 | -.01470 | -.12540 |
| 1.201 | .545 | .00000 | .01020 | .03450 | .01980 | .01020 | -.01470 | -.12540 |
| 1.202 | 1.069 | .00000 | .01020 | .04600 | .01980 | .01020 | -.02620 | -.12540 |
| 1.199 | 2.127 | .00000 | .01020 | .04600 | .01980 | .01020 | -.02620 | -.12540 |
| 1.200 | 3.177 | .00000 | .01020 | .04600 | .01980 | .01020 | -.02620 | -.12540 |
| 1.201 | 4.242 | .00000 | .01020 | .04600 | .01980 | .01020 | -.02620 | -.13360 |
| 1.201 | 6.326 | .00950 | .01020 | .04600 | .01980 | .00170 | -.02620 | -.13360 |
| 1.200 | GRADIENT | .00000 | -.00200 | .00243 | .00000 | -.00200 | -.00243 | -.00085 |

| | | | | | | |
|---------|--------|--------|------|---------------------|--------|------|
| RUN NO. | 605/ 0 | RN/L = | 4.97 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|---------|--------|--------|------|---------------------|--------|------|

[illegible]

0A145 TABULATED FORCE DATA

AMES 118-1-11 0A145A 01

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REFERENCE DATA

| | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|--------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. X0 |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. Y0 |
| BREF | = | 936.6800 | 11CHES | ZMRP | = | 375.0000 | IN. Z0 |
| SCALE | = | .0500 | | | | | |

PARAMETRIC DATA

| | | | | | |
|--------|---|-------|--------|---|------|
| ALPHA | = | .000 | BETA | = | .000 |
| ELEVON | = | .000 | ATLRON | = | .000 |
| BDFLAP | = | .000 | SPDBRK | = | .000 |
| RN/L | = | 5.000 | | | |

| RUN NO. | 648/ 0 | RN/L | 5.01 | GRADIENT | INTERVAL | -5.00/ | 5.00 | DELR | DRHL |
|---------|--------|--------|--------|----------|----------|--------|--------|-----------|------|
| RUDDER | ELV-L0 | ELV-L1 | ELV-R0 | ELV-R1 | DELL | | | | |
| -14.960 | .00000 | .01020 | .00000 | .02970 | .01020 | | .02970 | -18.03200 | |
| -10.718 | .00000 | .01020 | .00000 | .02970 | .01020 | | .02970 | -12.98500 | |
| -4.969 | .00000 | .01020 | .00000 | .02970 | .01020 | | .02970 | -6.04640 | |
| -2.426 | .00000 | .01020 | .00000 | .02970 | .01020 | | .02970 | -2.95480 | |
| - .089 | .00000 | .01020 | .00000 | .02970 | .01020 | | .02970 | - .10890 | |
| 2.505 | .00000 | .01020 | .00000 | .03960 | .01020 | | .03960 | 3.05070 | |
| 5.014 | .00000 | .01020 | .00000 | .03960 | .01020 | | .03960 | 6.10130 | |
| 10.019 | .00000 | .01020 | .00000 | .03960 | .01020 | | .03960 | 12.14700 | |
| 14.996 | .00000 | .01020 | .00000 | .03960 | .01020 | | .03960 | 18.07400 | |
| 18.125 | .00000 | .01020 | .00000 | .03960 | .01020 | | .03960 | 21.74200 | |
| 22.799 | .00000 | .01020 | .00000 | .03960 | .01020 | | .03960 | 27.11700 | |
| 27.532 | .00000 | .01000 | .00000 | .03121 | .00000 | | .00121 | 1.21726 | |

| RUN NO. | 636/ 0 | RN/L | GRADIENT | INTERVAL | -5.00/ | 5.00 | DELL | DEL R | DRHL |
|----------|--------|--------|----------|----------|--------|------|---------|---------|-----------|
| RUDDER | ELV-L0 | ELV-L1 | ELV-R0 | ELV-R1 | | | | | |
| -14.993 | .01700 | .01020 | .03450 | .00990 | | | -.00680 | -.02460 | -18.07000 |
| -10.762 | .01700 | .01020 | .02300 | .00990 | | | -.00680 | -.01310 | -13.03800 |
| -4.939 | .01700 | .01020 | .02300 | .00990 | | | -.00680 | -.01310 | -6.01000 |
| -2.442 | .01700 | .01020 | .02300 | .00990 | | | -.00680 | -.01310 | -2.97460 |
| -.089 | .01700 | .01020 | .02300 | .00990 | | | -.00680 | -.01310 | -.10890 |
| 2.522 | .01700 | .01020 | .02300 | .00990 | | | -.00680 | -.01310 | 3.07160 |
| 5.024 | .01700 | .01020 | .02300 | .00990 | | | -.00680 | -.01310 | 6.11260 |
| 10.011 | .01700 | .01020 | .02300 | .00990 | | | -.00680 | -.01310 | 12.13700 |
| 14.996 | .01700 | .01020 | .02300 | .00990 | | | -.00680 | -.01310 | 18.07400 |
| 18.116 | .01700 | .01020 | .02300 | .00990 | | | -.00680 | -.01310 | 21.73100 |
| 22.818 | .01700 | .01020 | .02300 | .00990 | | | -.00680 | -.01310 | 27.13800 |
| GRADIENT | .00000 | .00000 | .03000 | .00000 | | | .00000 | .00000 | 1.21725 |

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(D2F075) (08 JUL 77)

REFERENCE DATA

| | | | | | | | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|--------|--------|---|-------|--------|---|------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. XO | ALPHA | = | .000 | BETA | = | .000 |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. YO | ELEVON | = | .000 | AIRLON | = | .000 |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. ZO | BDFLAP | = | .000 | SPDBRK | = | .000 |
| SCALE | = | .0500 | | | | | | RN/L | = | 5.000 | | | |

PARAMETRIC DATA

| | | | |
|---------|--------|-------------|---------------------------------|
| RUN NO. | 629/ 0 | RN/L = 5.03 | GRADIENT INTERVAL = -5.00/ 5.00 |
|---------|--------|-------------|---------------------------------|

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELX | DRAH |
|----------|---------|--------|---------|---------|--------|---------|---------|-----------|
| .962 | -14.993 | .03400 | .01020 | .01150 | .02970 | -.02380 | .01820 | -18.07000 |
| .951 | -10.745 | .03400 | .01020 | .01150 | .02970 | -.02380 | .01820 | -13.01700 |
| .953 | -4.954 | .03400 | .01020 | .01150 | .02970 | -.02380 | .01820 | -6.02820 |
| .953 | -2.434 | .03400 | .01020 | .01150 | .02970 | -.02380 | .01820 | -2.96470 |
| .951 | 2.505 | .03400 | .01020 | .01150 | .02970 | -.02380 | .01820 | -1.14180 |
| .952 | 5.024 | .03400 | .01020 | .01150 | .02970 | -.02380 | .01820 | 3.05070 |
| .951 | 10.011 | .03400 | .01020 | .01150 | .02970 | -.02380 | .01820 | 12.13700 |
| .951 | 15.022 | .03400 | .01020 | .01150 | .02970 | -.02380 | .01820 | 18.10500 |
| .950 | 18.107 | .03400 | .01020 | .01150 | .02970 | -.02380 | .01820 | 21.72100 |
| .951 | 22.827 | .03400 | .00000 | .01150 | .02970 | -.03400 | .01820 | 27.14900 |
| GRADIENT | | .00000 | -.00000 | -.00000 | .00000 | .00000 | -.00000 | -1.21727 |

RUN NO. 616/ 0 RN/L = 5.07

GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

(D2F076) (08 JUL 77)

0A145 TABULATED FORCE DATA

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DATE 10 MAR 80

REFERENCE DATA

| | | | | | | | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|--------|--------|---|-------|--------|---|------|
| SREF | = | 2690.0000 | SO.FT. | XMRP | = | 1075.6800 | IN. X0 | ALPHA | = | .0000 | ATLRON | = | .000 |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. Y0 | ELEVON | = | .000 | | | .000 |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. Z0 | BDFLAP | = | .000 | SPDBRK | = | .000 |
| SCALE | = | .0500 | | | | | | RN/L | = | 5.000 | | | |

PARAMETRIC DATA

| | | | |
|---------------------|------|--------|------|
| GRADIENT INTERVAL = | 5.00 | -5.00/ | 5.00 |
| BN/I = | 5.00 | | |
| ELB/ | 0 | | |

| MACH | RUDDER | ELV-L0 | ELV-L1 | ELV-R0 | ELV-R1 | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|--------|--------|-----------|
| .600 | -15.010 | .00000 | .01020 | .00000 | .03960 | .01020 | .03960 | -18.09000 |
| .600 | -10.754 | .00000 | .01020 | .00000 | .03960 | .01020 | .03960 | -13.02800 |
| .600 | -4.932 | .00000 | .01020 | .00000 | .03960 | .01020 | .03960 | -5.00090 |
| .600 | -2.434 | .00000 | .01020 | .00000 | .03960 | .01020 | .03960 | -2.96470 |
| .600 | -1.103 | .00000 | .01020 | .00000 | .03960 | .01020 | .03960 | -1.12540 |
| .600 | 2.513 | .00000 | .01020 | .00000 | .03960 | .01020 | .03960 | 3.06120 |
| .600 | 4.996 | .00000 | .01020 | .00000 | .04950 | .01020 | .04950 | 6.07880 |
| .600 | 10.003 | .02550 | .01020 | .00000 | .04950 | .01530 | .04950 | 12.12800 |
| .600 | 15.014 | .01020 | .01020 | .00000 | .04950 | .01530 | .04950 | 18.09500 |
| .600 | 18.125 | .02550 | .01020 | .00000 | .02970 | .01530 | .02970 | 21.74200 |
| .600 | 22.827 | .02550 | .01020 | .00000 | .03970 | .01530 | .02970 | 27.14900 |
| .600 | GRADIENT | .00000 | .00000 | .00000 | .00080 | .00000 | .00080 | 1.21705 |

| | | |
|---------------------|--------|------|
| GRADIENT INTERVAL = | -5.00/ | 5.00 |
|---------------------|--------|------|

| MACH | RUDDER | ELV-LO | ELV-L1 | ELV-RO | ELV-R1 | DELL | DELR | DRHL |
|------|---------|--------|--------|--------|--------|---------|--------|-----------|
| .800 | -14.965 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -18.03800 |
| .800 | -10.736 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -13.00600 |
| .800 | -4.902 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -5.96450 |
| .800 | -2.451 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -2.98450 |
| .800 | -.123 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -.15000 |
| .800 | 2.488 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | 3.02970 |
| .800 | 5.014 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | 6.10130 |
| .800 | 10.003 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | 12.12800 |
| .800 | 15.014 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | 18.09500 |
| .800 | 18.107 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | 21.72100 |
| .800 | 22.827 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | 27.14900 |
| .800 | 27.149 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | 32.12728 |

DATE 10, MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(02F076) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = .000
 RN/L = 5.000

RUN NO. 637/ 0 RN/L = 4.98

GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|--------|---------|-----------|
| .900 | -14.976 | .00000 | .01020 | .01150 | .00990 | .01020 | -.00160 | -18.05000 |
| .900 | -10.736 | .00000 | .01020 | .00000 | .00990 | .01020 | .00990 | -13.00600 |
| .902 | -4.954 | .00000 | .01020 | .00000 | .00990 | .01020 | .00990 | -6.02820 |
| .900 | -2.426 | .00000 | .01020 | .00000 | .00990 | .01020 | .00990 | -2.95480 |
| .900 | .103 | .00000 | .01020 | .02300 | .00990 | .01020 | -.01310 | -.12540 |
| .900 | 2.513 | .00000 | .01020 | .02300 | .00990 | .01020 | -.01310 | 3.06120 |
| .900 | 5.005 | .00000 | .01020 | .02300 | .00990 | .01020 | -.01310 | 6.09000 |
| .900 | 10.019 | .00000 | .01020 | .02300 | .00990 | .01020 | -.01310 | 12.14700 |
| .900 | 15.022 | .00000 | .01020 | .01150 | .00990 | .01020 | -.00160 | 18.10500 |
| .900 | 18.107 | .00000 | .01020 | .01150 | .00990 | .01020 | -.00160 | 21.72100 |
| .900 | 22.808 | .00000 | .01020 | .01150 | .00990 | .01020 | -.00160 | 27.12700 |
| .900 | GRADIENT | .00000 | .00000 | .00368 | .00000 | .00000 | -.00368 | 1.21727 |

RUN NO. 630/ 0 RN/L = 5.03

GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|---------|--------|---------|---------|---------|-----------|
| .951 | -14.965 | .02550 | .01020 | .00000 | .02970 | -.01530 | .02970 | -18.03800 |
| .951 | -10.736 | .02550 | .01020 | .00000 | .02970 | -.01530 | .02970 | -13.00600 |
| .952 | -4.961 | .02550 | .01020 | .00000 | .02970 | -.01530 | .02970 | -6.03730 |
| .952 | -2.442 | .02550 | .01020 | .00000 | .02970 | -.01530 | .02970 | -2.97460 |
| .949 | -.110 | .02550 | .01020 | .00000 | .02970 | -.01530 | .02970 | -.13360 |
| .950 | 2.488 | .02550 | .01020 | .00000 | .02970 | -.01530 | .02970 | 3.02970 |
| .951 | 5.014 | .02550 | .01020 | .00000 | .02970 | -.01530 | .02970 | 6.10130 |
| .951 | 10.011 | .02550 | .01020 | .00000 | .02970 | -.01530 | .02970 | 12.13700 |
| .951 | 15.005 | .02550 | .01020 | .00000 | .02970 | -.01530 | .02970 | 18.08500 |
| .950 | 18.107 | .02550 | .01020 | .00000 | .02970 | -.01530 | .02970 | 21.72100 |
| .951 | 22.827 | .02550 | .01020 | .00000 | .03960 | -.01530 | .03960 | 27.14900 |
| .951 | GRADIENT | .00000 | -.00000 | .00000 | -.00000 | .00000 | -.00000 | 1.21726 |

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0A145 TABULATED FORCE DATA

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AMES 118-1-11 0A145A 01

(02F076) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELEVON = .000 AILRON = .000
BDFLAP = .000 SPDBRK = .000
RN/L = 5.000

RUN NO. 620/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|--------|--------|--------|-----------|
| 1.100 | -14.993 | .00850 | .01020 | .03450 | .02970 | .00170 | .00480 | -18.07000 |
| 1.103 | -10.771 | .00850 | .01020 | .03450 | .02970 | .00170 | .00480 | -13.04900 |
| 1.101 | -4.947 | .00850 | .01020 | .03450 | .02970 | .00170 | .00480 | -6.01910 |
| 1.102 | -2.434 | .00850 | .01020 | .03450 | .02970 | .00170 | .00480 | -2.96470 |
| 1.103 | -1.103 | .00850 | .01020 | .03450 | .02970 | .00170 | .00480 | -1.12540 |
| 1.101 | 2.513 | .00850 | .01020 | .03450 | .02970 | .00170 | .00480 | 3.06120 |
| 1.103 | 5.014 | .00850 | .01020 | .03450 | .02970 | .00170 | .00480 | 6.10130 |
| 1.101 | 10.019 | .00850 | .01020 | .03450 | .02970 | .00170 | .00480 | 12.14700 |
| 1.102 | 15.014 | .00850 | .01020 | .03450 | .02970 | .00170 | .00480 | 18.09500 |
| 1.103 | 18.116 | .00850 | .01020 | .03450 | .02970 | .00170 | .00480 | 21.73100 |
| 1.102 | 22.836 | .00000 | .01020 | .03450 | .02970 | .01020 | .00480 | 27.15900 |
| 1.103 | GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | 1.21728 |

RUN NO. 617/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|--------|---------|---------|-----------|
| 1.203 | -14.976 | .03400 | .01020 | .04600 | .01980 | -.02380 | -.02620 | -18.05000 |
| 1.203 | -10.762 | .03400 | .01020 | .04600 | .01980 | -.02380 | -.02620 | -13.03800 |
| 1.204 | -4.932 | .03400 | .01020 | .04600 | .01980 | -.02380 | -.02620 | -6.00090 |
| 1.203 | -2.426 | .03400 | .01020 | .04600 | .01980 | -.02380 | -.02620 | -2.95480 |
| 1.203 | -1.110 | .03400 | .01020 | .04600 | .01980 | -.02380 | -.02620 | -1.13360 |
| 1.203 | 2.522 | .03400 | .02040 | .04600 | .01980 | -.01360 | -.02620 | 3.07160 |
| 1.202 | 5.005 | .03400 | .01020 | .04600 | .01980 | -.02380 | -.02620 | 6.09000 |
| 1.203 | 10.043 | .03400 | .01020 | .04600 | .01980 | -.02380 | -.02620 | 12.17500 |
| 1.202 | 15.014 | .03400 | .01020 | .04600 | .01980 | -.02380 | -.02620 | 18.09500 |
| 1.204 | 18.107 | .03400 | .01020 | .04600 | .01980 | -.02380 | -.02620 | 21.72100 |
| 1.203 | 22.827 | .03400 | .01020 | .04600 | .01980 | -.02380 | -.02620 | 27.14900 |
| 1.203 | GRADIENT | .00000 | .00126 | .00000 | .00000 | .00126 | .00000 | 1.21726 |

| REFERENCE DATA | | | | | | | | | | PARAMETRIC DATA | | | | | | | | | |
|----------------|---|-----------|--------|---------|---|-----------|---------|---------|--------|---------------------------------|---------|-----------|------|--------|---|------|--------|---|------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. XO | ALPHA | = | 5.000 | BETA | = | .000 | AILRON | = | .000 | SPDBRK | = | .000 |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. YO | ELEVON | = | .000 | AILRON | = | .000 | SPDBRK | = | .000 | SPDBRK | = | .000 |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. ZO | BDELAP | = | .000 | AILRON | = | .000 | SPDBRK | = | .000 | SPDBRK | = | .000 |
| SCALE | = | .0500 | | | | | | RN/L | = | 5.000 | | | | | | | | | |
| RUN NO. 606/ 0 | | | | | | | | | | GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | |
| MACH | | | | RUDDER | | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL | | | | | | | |
| 1.407 | | | | -14.970 | | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -18.04400 | | | | | | | |
| 1.407 | | | | -10.745 | | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -13.01700 | | | | | | | |
| 1.403 | | | | -4.932 | | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -6.00090 | | | | | | | |
| 1.404 | | | | -2.426 | | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -2.95480 | | | | | | | |
| 1.403 | | | | -110 | | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -1.3360 | | | | | | | |
| 1.403 | | | | 2.505 | | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | 3.05070 | | | | | | | |
| 1.403 | | | | 5.014 | | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | 6.10130 | | | | | | | |
| 1.402 | | | | 10.027 | | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | 12.15600 | | | | | | | |
| 1.403 | | | | 15.022 | | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | 18.10500 | | | | | | | |
| 1.403 | | | | 18.116 | | .00850 | .01020 | .02300 | .01980 | .00170 | .00320 | 21.73100 | | | | | | | |
| 1.403 | | | | 22.818 | | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | 27.13800 | | | | | | | |
| GRADIENT | | | | | | .00000 | -.00000 | -.00000 | .00000 | -.00000 | -.00000 | 1.21728 | | | | | | | |

| | | | | | | | | | | | | | | | | | | | |
|----------------|---|-----------|--------|---------|---|-----------|--------|--------|--------|---------------------------------|--------|-----------|------|--------|---|------|--------|---|------|
| REFERENCE DATA | | | | | | | | | | PARAMETRIC DATA | | | | | | | | | |
| SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. XO | ALPHA | = | 10.000 | BETA | = | .000 | AILRON | = | .000 | SPDBRK | = | .000 |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. YO | ELEVON | = | .000 | AILRON | = | .000 | SPDBRK | = | .000 | SPDBRK | = | .000 |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. ZO | BDELAP | = | .000 | AILRON | = | .000 | SPDBRK | = | .000 | SPDBRK | = | .000 |
| SCALE | = | .0500 | | | | | | RN/L | = | 5.000 | | | | | | | | | |
| RUN NO. 650/ 0 | | | | | | | | | | GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | |
| MACH | | | | RUDDER | | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL | | | | | | | |
| .600 | | | | -14.965 | | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | -18.03800 | | | | | | | |
| .600 | | | | -10.754 | | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | -13.02800 | | | | | | | |
| .598 | | | | -4.924 | | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | -5.99180 | | | | | | | |
| .598 | | | | -2.434 | | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | -2.96470 | | | | | | | |
| .538 | | | | -1.103 | | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | -1.2540 | | | | | | | |
| .598 | | | | 2.522 | | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | 3.07160 | | | | | | | |
| .598 | | | | 4.996 | | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | 6.07880 | | | | | | | |
| .597 | | | | 10.027 | | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | 12.15600 | | | | | | | |
| .597 | | | | 14.996 | | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | 18.07400 | | | | | | | |
| .597 | | | | 17.170 | | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | 20.62800 | | | | | | | |
| .598 | | | | 22.818 | | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | 27.13800 | | | | | | | |
| GRADIENT | | | | | | .00000 | .00000 | .00000 | .00000 | -.00000 | .00000 | 1.21705 | | | | | | | |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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(02F077) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 10.000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 AILRON = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO BDFLAP = .000 SPDBRK = .000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 638/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00
 MACH RUDDER ELV-LO ELV-LI ELV-RO ELV-RI DELL DELR DRHL
 .900 -14.960 .00850 .01020 .01150 .00990 .00170 -18.03200
 .900 -10.736 .00850 .01020 .01150 .00990 .00170 -13.00600
 .900 -4.947 .00850 .01020 .01150 .00990 .00170 -6.01910
 .898 -2.434 .00000 .01020 .01150 .00990 .01020 -2.96470
 .900 -1.103 .00850 .01020 .01150 .00990 .00170 -1.2540
 .900 2.522 .00850 .01020 .01150 .00990 .00170 3.07160
 .900 4.996 .00850 .01020 .01150 .00990 .00170 6.07880
 .900 10.003 .00850 .01020 .01150 .00990 .00170 12.12800
 .901 15.014 .00850 .01020 .01150 .00990 .00170 18.09500
 .898 18.125 .00850 .01020 .01150 .00990 .00170 21.74200
 .901 22.808 .00850 .01020 .01150 .00990 .00170 27.12700
 GRADIENT .00034 .00000 .00000 .00000 .00034 .00000 1.21704

RUN NO. 631/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00
 MACH RUDDER ELV-LO ELV-LI ELV-RO ELV-RI DELL DELR DRHL
 .951 -14.965 .01700 .01020 .01150 .03960 -.00680 -18.03800
 .952 -10.736 .02550 .01020 .01150 .03960 -.01530 -13.00600
 .952 -4.961 .02550 .01020 .01150 .03960 -.01530 -6.03730
 .951 -2.434 .02550 .01020 .01150 .03960 -.01530 -2.96470
 .950 -1.110 .02550 .01020 .01150 .03960 -.01530 -1.3360
 .952 2.522 .01700 .01020 .01150 .03960 -.00680 3.07160
 .950 4.996 .02550 .01020 .01150 .03960 -.01530 6.07880
 .952 10.019 .02550 .01020 .01150 .03960 -.01530 12.14700
 .951 15.014 .02550 .01020 .01150 .03960 -.01530 18.09500
 .951 18.098 .02550 .01020 .01150 .03960 -.01530 21.71000
 .950 22.818 .01700 .01020 .01150 .03960 -.00680 27.13800
 GRADIENT -.00035 -.00000 .00000 .00000 .00035 .00000 1.21703

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0A145 TABULATED FORCE DATA

PAGE 1445

AMES 118-1-11 0A145A 01

(02F077) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000 BETA = .000
ELEVON = .000 AILRON = .000
BDFLAP = .000 SPOBRK = .000
RN/L = 5.000

RUN NO. 618/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|---------|--------|--------|---------|---------|-----------|
| 1.202 | -14.965 | .01700 | .01020 | .04600 | .01980 | -.00680 | -.02620 | -18.03800 |
| 1.203 | -10.736 | .01700 | .01020 | .03450 | .02970 | -.00680 | -.00480 | -13.00600 |
| 1.201 | -4.947 | .01700 | .01020 | .04600 | .02970 | -.00680 | -.01630 | -6.01910 |
| 1.204 | -2.426 | .01700 | .01020 | .04600 | .01980 | -.00680 | -.02620 | -2.95480 |
| 1.204 | -1.110 | .01700 | .01020 | .04600 | .02970 | -.00680 | -.01630 | -1.13360 |
| 1.203 | 2.531 | .01700 | .01020 | .04600 | .02970 | -.00680 | -.01630 | 3.08210 |
| 1.202 | 5.014 | .01700 | .01020 | .03450 | .02970 | -.00680 | -.00480 | 6.10130 |
| 1.203 | 10.043 | .01700 | .01020 | .03450 | .01980 | -.00680 | -.01470 | 12.17500 |
| 1.203 | 15.014 | .01700 | .01020 | .04600 | .02970 | -.00680 | -.01630 | 18.09500 |
| 1.202 | 18.107 | .01700 | .01020 | .03450 | .01980 | -.00680 | -.01470 | 21.72100 |
| 1.203 | 22.827 | .01700 | .01020 | .04600 | .01980 | -.00680 | -.02620 | 27.14900 |
| | GRADIENT | .00000 | -.00000 | .00000 | .00038 | .00000 | .00038 | 1.21726 |

RUN NO. 607/ 0 RN/L = 4.97

GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|---------|--------|--------|---------|-----------|
| 1.402 | -14.970 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -18.04400 |
| 1.401 | -10.745 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -13.01700 |
| 1.402 | -4.947 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -6.01910 |
| 1.402 | -2.451 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -2.98450 |
| 1.403 | -1.103 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -1.2540 |
| 1.403 | 2.496 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | 3.04020 |
| 1.404 | 5.014 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | 6.10130 |
| 1.404 | 10.027 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | 12.15600 |
| 1.403 | 15.014 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | 18.09500 |
| 1.403 | 18.107 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | 21.72100 |
| 1.403 | 22.827 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | 27.14900 |
| | GRADIENT | .00000 | .00000 | -.00000 | .00000 | .00000 | -.00000 | 1.21727 |

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0A145 TABULATED FORCE DATA

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AMES 118-1-11 0A145A 01

(02F078) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 15.000 BETA = .000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 AILRON = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO BDFLAP = .000 SPDBRK = .000
SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 651/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|---------|--------|--------|--------|---------|---------|-----------|
| .598 | -14.970 | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | -18.04400 |
| .599 | -10.782 | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | -13.03800 |
| .598 | -4.954 | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | -6.02820 |
| .598 | -2.434 | .02550 | .01020 | .00000 | .02970 | -.01530 | .02970 | -2.96470 |
| .598 | -1.110 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -1.13360 |
| .598 | 2.513 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | 3.06120 |
| .598 | 5.024 | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | 6.11260 |
| .598 | 10.003 | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | 12.12800 |
| .598 | 15.022 | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | 18.10500 |
| .598 | 18.107 | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | 21.72100 |
| .598 | 22.818 | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | 27.13800 |
| GRADIENT | | -.00033 | .00000 | .00184 | .00000 | .00033 | -.00184 | 1.21728 |

RUN NO. 639/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|---------|---------|---------|--------|---------|---------|-----------|
| .900 | -14.970 | .01700 | .01020 | .01150 | .00990 | -.00680 | -.00160 | -18.04400 |
| .900 | -10.780 | .02550 | .01020 | .01150 | .00990 | -.01530 | -.00160 | -13.06000 |
| .900 | -4.954 | .02550 | .01020 | .01150 | .00990 | -.01530 | -.00160 | -6.02820 |
| .901 | -2.426 | .01700 | .01020 | .01150 | .00990 | -.00680 | -.00160 | -2.95480 |
| .899 | -.096 | .01700 | .01020 | .01150 | .00990 | -.00680 | -.00160 | -1.11710 |
| .900 | 2.488 | .01700 | .01020 | .01150 | .00990 | -.00680 | -.00160 | 3.02970 |
| .899 | 5.024 | .01700 | .01020 | .01150 | .00990 | -.00680 | -.00160 | 6.11260 |
| .901 | 10.011 | .01700 | .01020 | .01150 | .00990 | -.00680 | -.00160 | 12.13700 |
| .899 | 15.014 | .01700 | .01020 | .01150 | .00990 | -.00680 | -.00160 | 18.09500 |
| .900 | 18.107 | .01700 | .01020 | .01150 | .00990 | -.00680 | -.00160 | 21.72100 |
| .900 | 22.836 | .01700 | .01020 | .01150 | .00990 | -.00680 | -.00160 | 27.15900 |
| GRADIENT | | -.00104 | -.00000 | -.00000 | .00000 | .00104 | .00000 | 1.21727 |

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0A145 TABULATED FORCE DATA

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(D2F078) (08 JUL 77)

REFERENCE DATA

[illegible]

PARAMETRIC DATA

| | | | |
|---------|--------|-------------|---------------------------------|
| RUN NO. | 619/ 0 | RN/L = 5.04 | GRADIENT INTERVAL = -5.00/ 5.00 |
|---------|--------|-------------|---------------------------------|

[illegible]

| | | | |
|---------|--------|-------------|---------------------------------|
| RUN NO. | 608/ 0 | RN/L = 4.96 | GRADIENT INTERVAL = -5.00/ 5.00 |
|---------|--------|-------------|---------------------------------|

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|--------|---------|---------|--------|---------|---------|-----------|
| 1.395 | -14.976 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -18.05000 |
| 1.395 | -10.727 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -12.99500 |
| 1.394 | -10.727 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -6.01000 |
| 1.395 | -4.939 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -2.95480 |
| 1.396 | -2.426 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -1.13360 |
| 1.395 | -.110 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | 3.05070 |
| 1.395 | 2.505 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | 6.10130 |
| 1.395 | 5.014 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | 12.14700 |
| 1.396 | 10.019 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | 18.08500 |
| 1.395 | 15.005 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | 21.75200 |
| 1.397 | 18.134 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | 27.15900 |
| 1.395 | 22.836 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | 1.21728 |
| GRADIENT | .00000 | .00000 | -.00000 | -.00000 | .00000 | .00000 | -.00000 | |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

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AMES 118-1-11 0A145A 01

(02F079) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = .000 RUDDER = -5.000
 RN/L = 5.000

RUN NO. 652/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|---------|--------|---------|--------|---------|--------|----------|
| .598 | -5.064 | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | -6.00090 |
| .600 | -.070 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -5.93730 |
| .597 | 2.440 | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | -6.04640 |
| .596 | 4.903 | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | -6.01910 |
| .598 | 6.992 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -6.01910 |
| .597 | 8.044 | .00850 | .01020 | .00000 | .02970 | .00170 | .02970 | -6.03730 |
| .598 | 10.100 | .00000 | .01020 | .00000 | .02970 | .01020 | .02970 | -5.98270 |
| .597 | 12.122 | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | -5.96450 |
| .598 | 15.144 | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | -6.03730 |
| GRADIENT | -.00000 | -.00000 | .00000 | -.00232 | .00000 | .00000 | .00232 | -.01653 |

RUN NO. 640/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|---------|---------|---------|---------|---------|----------|
| .900 | -5.118 | .00850 | .01020 | .01150 | .00990 | .00170 | .00160 | -6.01000 |
| .899 | -.104 | .01700 | .01020 | .01150 | .00990 | -.00680 | -.00160 | -6.00090 |
| .900 | 2.447 | .01700 | .01020 | .01150 | .00990 | -.00680 | -.00160 | -6.00090 |
| .899 | 4.994 | .02550 | .01020 | .01150 | .00990 | -.01530 | -.00160 | -6.01000 |
| .898 | 7.128 | .01700 | .01020 | .00000 | .00990 | -.00680 | .00990 | -6.00090 |
| .898 | 8.069 | .01700 | .01020 | .01150 | .00990 | -.00680 | -.00160 | -6.01000 |
| .899 | 10.117 | .00850 | .01020 | .00000 | .00990 | .00170 | .00990 | -6.03730 |
| .901 | 12.151 | .00850 | .01020 | .01150 | .00990 | .00170 | -.00160 | -6.02820 |
| .900 | 15.204 | .01700 | .01020 | .01150 | .00990 | -.00680 | -.00160 | -6.00090 |
| GRADIENT | .00167 | -.00000 | -.00000 | -.00000 | -.00000 | -.00167 | .00000 | -.00178 |

RUN NO. 624/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|--------|--------|--------|---------|---------|---------|----------|
| .950 | -5.060 | .01700 | .01020 | .02300 | .02970 | -.00680 | .00670 | -6.02820 |
| .952 | -.016 | .00000 | .01020 | .02300 | .01980 | .01020 | -.00320 | -6.01910 |
| .951 | 2.439 | .00000 | .01020 | .02300 | .01980 | .01020 | -.00320 | -6.02820 |
| .952 | 4.921 | .00850 | .01020 | .02300 | .01980 | .01020 | -.00320 | -6.01000 |
| .950 | 6.959 | .00000 | .01020 | .02300 | .01980 | .01020 | -.00320 | -6.03730 |
| .951 | 7.992 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -6.03730 |
| .949 | 10.017 | .00000 | .01020 | .02300 | .01980 | .01020 | -.00320 | -6.02820 |
| .951 | 12.024 | .00000 | .01020 | .02300 | .01980 | .01020 | -.00320 | -6.04640 |
| .950 | 15.008 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -6.06450 |
| GRADIENT | .00172 | .00000 | .00000 | .00000 | -.00000 | -.00172 | .00000 | .00185 |

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OAI45 TABULATED FORCE DATA

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(02F079) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = .000 RUDDER = -5.000
 RN/L = 5.000

RUN NO. 610/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|---------|--------|--------|---------|----------|
| 1.203 | -5.094 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -6.04640 |
| 1.204 | -.036 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -6.04640 |
| 1.200 | 2.553 | -.01010 | .01020 | .00000 | .00000 | .02030 | .00000 | -6.04640 |
| 1.198 | 5.040 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -6.03730 |
| 1.198 | 7.095 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -6.02820 |
| 1.199 | 8.144 | .00000 | .01020 | .01150 | .00000 | .01020 | -.01150 | -6.01910 |
| 1.197 | 10.103 | -.01010 | .01020 | .01150 | .00000 | .02030 | -.01150 | -6.01000 |
| 1.198 | 12.096 | -.01010 | .01020 | .00000 | .00000 | .02030 | .00000 | -5.99180 |
| 1.199 | 15.027 | -.01010 | .02040 | .00000 | .00000 | .03050 | .00000 | -6.00090 |
| | GRADIENT | -.00390 | -.00000 | -.00888 | .00000 | .00390 | .00888 | .00000 |

RUN NO. 601/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|--------|--------|---------|---------|---------|----------|
| 1.396 | -5.000 | .00850 | .02040 | .00000 | .00990 | .01190 | .00990 | -6.01000 |
| 1.400 | .053 | .00850 | .02040 | .00000 | .01980 | .01190 | .01980 | -6.01910 |
| 1.403 | 2.545 | .00850 | .02040 | .00000 | .00990 | .01190 | .00990 | -6.00090 |
| 1.399 | 5.087 | .00000 | .02040 | .00000 | .01980 | .02040 | .01980 | -6.00090 |
| 1.399 | 7.175 | .00000 | .02040 | .00000 | .01980 | .02040 | .01980 | -6.00090 |
| 1.400 | 8.202 | .00000 | .01020 | .00000 | .01980 | .01020 | .01980 | -6.00090 |
| 1.397 | 10.250 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | -5.98270 |
| 1.397 | 12.290 | .00000 | .01020 | .00000 | .01980 | .01020 | .01980 | -5.87360 |
| 1.397 | 15.272 | -.01010 | .01020 | .00000 | .01980 | .02030 | .01980 | -6.01910 |
| | GRADIENT | -.00000 | .00000 | .00000 | -.00397 | -.00000 | -.00397 | .00730 |

(02F080) (08 JUL 77)

AMES 118-1-11 OAI145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDRK = .000 RUDDER = -5.000
RN/L = 5.000

RUN NO. 653/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|--------|--------|----------|
| .598 | -6.051 | .00850 | .01020 | .00000 | .02970 | .00170 | .02970 | -5.96450 |
| .597 | -1.917 | .00850 | .01020 | .00000 | .02970 | .00170 | .02970 | -6.00090 |
| .598 | -.872 | .00850 | .01020 | .00000 | .02970 | .00170 | .02970 | -6.05550 |
| .598 | .006 | .00850 | .01020 | .00000 | .02970 | .00170 | .02970 | -6.04640 |
| .598 | .499 | .00850 | .01020 | .00000 | .02970 | .00170 | .02970 | -6.01000 |
| .597 | 1.032 | .00850 | .01020 | .00000 | .02970 | .00170 | .02970 | -6.01000 |
| .597 | 2.102 | .00850 | .01020 | .00000 | .02970 | .00170 | .02970 | -6.01000 |
| .598 | 3.148 | .00850 | .01020 | .00000 | .02970 | .00170 | .02970 | -6.02820 |
| .597 | 4.179 | .00850 | .01020 | .00000 | .02970 | .00170 | .02970 | -6.01000 |
| .598 | 6.238 | .00850 | .01020 | .00000 | .02970 | .00170 | .02970 | -6.01910 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00198 |

RUN NO. 641/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|--------|---------|----------|
| .902 | -6.112 | .00850 | .01020 | .01150 | .00990 | .00170 | -.00160 | -6.00090 |
| .901 | -1.952 | .00850 | .01020 | .01150 | .00990 | .00170 | -.00160 | -6.01000 |
| .900 | -.902 | .00850 | .01020 | .01150 | .00990 | .00170 | -.00160 | -6.00090 |
| .900 | .158 | .00850 | .01020 | .01150 | .00990 | .00170 | -.00160 | -6.00090 |
| .900 | .638 | .00850 | .01020 | .01150 | .00990 | .00170 | -.00160 | -6.00090 |
| .900 | 1.163 | .00850 | .01020 | .01150 | .00990 | .00170 | -.00160 | -6.00090 |
| .899 | 2.215 | .00850 | .01020 | .01150 | .00990 | .00170 | -.00160 | -6.01000 |
| .899 | 3.264 | .00850 | .01020 | .01150 | .00990 | .00170 | -.00160 | -6.01000 |
| .898 | 4.302 | .00850 | .01020 | .01150 | .00990 | .00170 | -.00160 | -6.02820 |
| .895 | 6.375 | .00850 | .01020 | .01150 | .00990 | .00170 | -.00160 | -6.03730 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | -.00000 | -.00290 |

RUN NO. 625/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|---------|--------|---------|--------|----------|
| .950 | -6.137 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -6.01000 |
| .952 | -2.039 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -6.01910 |
| .951 | -.988 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -6.02820 |
| .950 | .072 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -6.04640 |
| .950 | .576 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -6.03730 |
| .950 | 1.109 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -6.05550 |
| .950 | 2.151 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -6.04640 |
| .949 | 3.185 | .01700 | .01020 | .00000 | .01980 | -.00680 | .01980 | -6.04640 |
| .950 | 4.225 | .02550 | .01020 | .00000 | .01980 | -.01530 | .01980 | -6.05550 |
| .947 | 6.313 | .02550 | .01020 | .00000 | .01980 | -.01530 | .01980 | -6.06450 |
| | GRADIENT | .00229 | .00000 | -.00200 | .00000 | -.00229 | .00200 | -.00503 |

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OAI45 TABULATED FORCE DATA

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(02F080) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = .000 RUDDER = -5.000
RN/L = 5.000

RUN NO. 611/ 0 RN/L = 5.06 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|---------|--------|--------|---------|---------|----------|
| 1.204 | -6.098 | .0000 | .02040 | .01150 | .00000 | .02040 | -.01150 | -6.01000 |
| 1.204 | -1.950 | .0000 | .02040 | .00000 | .00000 | .02040 | .00000 | -6.01000 |
| 1.201 | -.910 | .0000 | .01020 | .00000 | .00000 | .01020 | .00000 | -6.02820 |
| 1.202 | .155 | .0000 | .01020 | .00000 | .00000 | .01020 | .00000 | -6.02820 |
| 1.200 | .653 | .0000 | .01020 | .00000 | .00000 | .01020 | .00000 | -6.01910 |
| 1.203 | 1.163 | .0000 | .01020 | .00000 | .00000 | .01020 | .00000 | -6.02820 |
| 1.201 | 2.212 | .00850 | .01020 | .00000 | .00000 | .00170 | .00000 | -6.01910 |
| 1.201 | 3.258 | .01700 | .01020 | .00000 | .00000 | -.00680 | .00000 | -6.02820 |
| 1.200 | 4.298 | .00000 | .01020 | .00000 | .00000 | .01020 | .00000 | -6.03730 |
| 1.198 | 6.367 | .00000 | .01020 | .00000 | .00000 | .01020 | .00000 | -6.03730 |
| | GRADIENT | .00150 | -.00102 | .00000 | .00000 | -.00252 | .00000 | -.00258 |

RUN NO. 602/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|---------|--------|---------|--------|----------|
| 1.404 | -6.144 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -6.01000 |
| 1.405 | -1.968 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -6.01910 |
| 1.403 | -.924 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -6.02820 |
| 1.402 | .156 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -6.02820 |
| 1.403 | .648 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -6.02820 |
| 1.402 | 1.169 | .00850 | .01020 | .00000 | .01980 | .00170 | .01980 | -6.01910 |
| 1.403 | 2.226 | .00850 | .01020 | .00000 | .01980 | .00170 | .01980 | -6.00090 |
| 1.402 | 3.277 | .00850 | .01020 | .00000 | .01980 | .00170 | .01980 | -6.00090 |
| 1.403 | 4.326 | .01700 | .01020 | .00000 | .01980 | -.00680 | .01980 | -6.08270 |
| 1.400 | 6.404 | .03400 | .01020 | .00000 | .01980 | -.02380 | .01980 | -6.05550 |
| | GRADIENT | .00098 | .00000 | -.00243 | .00000 | -.00098 | .00243 | -.00365 |

OAI45 TABULATED FORCE DATA
AHES 118-1-11 OAI45A 01

DATE 10 MAR 80

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 ELEVON = .000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO AIRLON = .000 BDFLAP = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPOBRK = .000 RUDDER = -22.800
SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 654/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|--------|--------|--------|--------|--------|-----------|
| .598 | -6.048 | .00850 | .01020 | .00000 | .02970 | .00170 | .02970 | -27.05800 |
| .598 | -1.896 | .00850 | .01020 | .00000 | .02970 | .00170 | .02970 | -27.05800 |
| .598 | -.853 | .00850 | .01020 | .00000 | .02970 | .00170 | .02970 | -27.05800 |
| .598 | .041 | .00850 | .01020 | .00000 | .03960 | .00170 | .03960 | -27.05800 |
| .598 | .533 | .00850 | .01020 | .00000 | .03960 | .00170 | .03960 | -27.05800 |
| .598 | 1.057 | .00850 | .01020 | .00000 | .03960 | .00170 | .03960 | -27.05800 |
| .598 | 2.124 | .00850 | .01020 | .00000 | .03960 | .00170 | .03960 | -27.05800 |
| .598 | 3.168 | .00850 | .01020 | .00000 | .03960 | .00170 | .03960 | -27.05800 |
| .598 | 4.196 | .00000 | .01020 | .00000 | .03960 | .01020 | .03960 | -27.04900 |
| .597 | 6.252 | .00000 | .01020 | .00000 | .03960 | .01020 | .03960 | -27.04900 |
| | GRADIENT | -.00092 | .00000 | .00000 | .00165 | .00092 | .00165 | .00097 |

RUN NO. 642/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|--------|---------|-----------|
| .900 | -6.073 | .00850 | .01020 | .01150 | .00990 | .00170 | .00160 | -27.05800 |
| .901 | -1.930 | .00850 | .01020 | .01150 | .00990 | .00170 | .00160 | -27.06800 |
| .899 | -.879 | .00850 | .01020 | .01150 | .00990 | .00170 | .00160 | -27.06800 |
| .900 | .186 | .00850 | .01020 | .01150 | .00990 | .00170 | .00160 | -27.06800 |
| .900 | .666 | .00850 | .01020 | .01150 | .00990 | .00170 | .00160 | -27.06800 |
| .899 | 1.193 | .00850 | .01020 | .01150 | .00990 | .00170 | .00160 | -27.06800 |
| .900 | 2.238 | .00850 | .01020 | .01150 | .00990 | .00170 | .00160 | -27.06800 |
| .899 | 3.281 | .00850 | .01020 | .01150 | .00990 | .00170 | .00160 | -27.06800 |
| .898 | 4.319 | .00850 | .01020 | .01150 | .00990 | .00170 | .00160 | -27.06800 |
| .899 | 6.392 | .00850 | .01020 | .01150 | .00990 | .00170 | .00160 | -27.07700 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | -.00063 | -.00000 |

RUN NO. 612/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|--------|--------|---------|--------|-----------|
| 1.205 | -6.054 | .00000 | .01020 | .00000 | .00000 | .01020 | .00000 | -27.04900 |
| 1.204 | -1.929 | .01700 | .01020 | .00000 | .00000 | -.00680 | .00000 | -27.04900 |
| 1.202 | -.893 | .01700 | .01020 | .00000 | .00000 | -.00680 | .00000 | -27.04900 |
| 1.202 | .092 | .02550 | .02040 | .00000 | .00000 | -.00510 | .00000 | -27.05800 |
| 1.203 | .652 | .03400 | .01020 | .00000 | .00000 | -.02380 | .00000 | -27.05800 |
| 1.203 | 1.133 | .04250 | .01020 | .00000 | .00000 | -.03230 | .00000 | -27.05800 |
| 1.201 | 2.137 | .00850 | .01020 | .00000 | .00000 | .00170 | .00000 | -27.05800 |
| 1.201 | 3.174 | .00850 | .01020 | .00000 | .00000 | .00170 | .00000 | -27.05800 |
| 1.200 | 4.215 | .00850 | .01020 | .00000 | .00000 | -.00680 | .00000 | -27.05800 |
| 1.202 | 6.313 | .05100 | .01020 | .00000 | .00000 | -.04080 | .00000 | -27.05800 |
| 1.199 | | -.00139 | -.00034 | .00000 | .00000 | .00105 | .00000 | -.00152 |
| | GRADIENT | | | | | | | |

(D2F081) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0 ALPHA = 5.000 ELEVON = .000
LREF = 474.8100 INCHES YMRP = .0000 IN. Y0 AILRON = .000 BOFLAP = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0 SPOBRK = .000 RUDDER = -22.800
SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 603/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|---------|--------|---------|--------|-----------|
| 1.400 | -6.102 | .03400 | .01020 | .01150 | .01980 | -.02380 | .00830 | -27.04900 |
| 1.403 | -1.957 | .03400 | .01020 | .01150 | .01980 | -.02380 | .00830 | -27.04000 |
| 1.403 | -.910 | .02550 | .01020 | .00000 | .01980 | -.01530 | .01980 | -27.04000 |
| 1.402 | .164 | .03400 | .01020 | .00000 | .01980 | -.02380 | .01980 | -27.04000 |
| 1.403 | .663 | .03400 | .01020 | .00000 | .01980 | -.02380 | .01980 | -27.04000 |
| 1.403 | 1.186 | .03400 | .01020 | .00000 | .01980 | -.02380 | .01980 | -27.04000 |
| 1.403 | 2.239 | .03400 | .01020 | .00000 | .01980 | -.02380 | .01980 | -27.04000 |
| 1.403 | 3.285 | .03400 | .01020 | .00000 | .01980 | -.02380 | .01980 | -27.04000 |
| 1.402 | 4.332 | .04250 | .01020 | .00000 | .01980 | -.03230 | .01980 | -27.04000 |
| 1.402 | 6.410 | .05100 | .01020 | .00000 | .01980 | -.04080 | .01980 | -27.04000 |
| 1.402 | GRADIENT | .00144 | .00000 | -.00144 | .00000 | -.00144 | .00114 | -.00000 |

(D2F082) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0 ALPHA = .000 ELEVON = .000
LREF = 474.8100 INCHES YMRP = .0000 IN. Y0 AILRON = .000 BOFLAP = -11.700
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0 SPOBRK = .000 RUDDER = .000
SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 662/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|--------|--------|--------|---------|--------|---------|
| .397 | -5.052 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -.11710 |
| .397 | -.099 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.12540 |
| .397 | 2.419 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.12540 |
| .397 | 4.925 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.12540 |
| .396 | 6.963 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.12540 |
| .396 | 7.966 | .04250 | .01020 | .01150 | .02970 | -.03230 | .01820 | -.12540 |
| .396 | 10.013 | .04250 | .01020 | .01150 | .02970 | -.03230 | .01820 | -.12540 |
| .397 | 15.116 | .03400 | .01020 | .01150 | .02970 | -.02380 | .01820 | -.12540 |
| .397 | GRADIENT | -.00338 | .00000 | .00000 | .00000 | .00338 | .00000 | .00000 |

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(02F082) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

BETA = .000 ELEVON = .000
AILRON = .000 BOFLAP = -11.700
SPDBRK = .000 RUDDER = .000
RN/L = 5.000

PARAMETRIC DATA

RUN NO. 657/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|--------|--------|---------|--------|---------|---------|
| .999 | -4.913 | .00000 | .01020 | .00000 | .03960 | .01020 | .03960 | -.12540 |
| .998 | .006 | -.01010 | .01020 | .00000 | .02970 | .02030 | .02970 | -.12540 |
| .998 | 2.457 | -.02020 | .01020 | .00000 | .02970 | .03040 | .02970 | -.12540 |
| .997 | 4.962 | -.03030 | .01020 | .00000 | .02970 | .04050 | .02970 | -.12540 |
| .996 | 7.021 | .00850 | .01020 | .00000 | .02970 | .00170 | .02970 | -.11710 |
| .997 | 8.044 | .00850 | .01020 | .00000 | .02970 | .00170 | .02970 | -.11710 |
| .997 | 10.096 | .00850 | .01020 | .00000 | .02970 | .00170 | .02970 | -.11710 |
| .998 | 15.145 | .00850 | .01020 | .01150 | .02970 | .00170 | .02970 | -.13360 |
| | GRADIENT | -.00304 | .00000 | .00000 | -.00103 | .00304 | -.00103 | -.00000 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

ALPHA = 19.000 ELEVON = .000
AILRON = .000 BOFLAP = -11.700
SPDBRK = .000 RUDDER = .000
RN/L = 5.000

PARAMETRIC DATA

RUN NO. 663/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|--------|--------|---------|---------|---------|
| .397 | -5.007 | .03400 | .01020 | .00000 | .02970 | -.02380 | .02970 | -.12540 |
| .396 | -3.993 | .03400 | .01020 | .00000 | .02970 | -.02380 | .02970 | -.12540 |
| .396 | -1.920 | .03400 | .01020 | .00000 | .02970 | -.02380 | .02970 | -.12540 |
| .396 | -.884 | .03400 | .01020 | .01150 | .02970 | -.02380 | .01820 | -.12540 |
| .397 | .144 | .03400 | .01020 | .01150 | .02970 | -.02380 | .01820 | -.12540 |
| .397 | 1.173 | .03400 | .01020 | .01150 | .02970 | -.02380 | .01820 | -.12540 |
| .397 | 2.191 | .03400 | .01020 | .01150 | .02970 | -.02380 | .01820 | -.12540 |
| .397 | 4.255 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -.12540 |
| .397 | 5.287 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -.13360 |
| | GRADIENT | -.00079 | -.00000 | .00160 | .00000 | .00079 | -.00160 | .00000 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO

LREF = 474.8100 INCHES YMRP = .0000 IN. YO

BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO

SCALE = .0500

RUN NO. 658/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|---------|---------|--------|---------|---------|---------|
| .597 | -5.019 | .0000 | .01020 | .01150 | .03960 | .01020 | .02810 | -.05960 |
| .598 | -4.000 | .0000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.05140 |
| .597 | -1.936 | .0000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.06790 |
| .598 | -.896 | .0000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.06790 |
| .598 | .138 | .0000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.06790 |
| .599 | 1.175 | .0000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.06790 |
| .599 | 2.201 | .0000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.06790 |
| .599 | 4.276 | .0000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.07610 |
| .599 | 5.307 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.07610 |
| .598 | GRADIENT | .00000 | -.00000 | -.00000 | .00000 | -.00000 | -.00000 | -.00227 |

PARAMETRIC DATA

ALPHA = 19.000 ELEVON = .000

AILRON = .000 BOFLAP = -11.700

SPDBRK = .000 RUDDER = .000

RN/L = 5.000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO

LREF = 474.8100 INCHES YMRP = .0000 IN. YO

BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO

SCALE = .0500

RUN NO. 906/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|---------|---------|--------|---------|--------|---------|
| .599 | -5.219 | .00850 | .02040 | .00000 | .02970 | .01190 | .02970 | -.14180 |
| .598 | -.240 | .00850 | .02040 | .00000 | .02970 | .01190 | .02970 | -.14180 |
| .597 | 2.284 | .00850 | .02040 | .01150 | .02970 | .01190 | .01820 | -.14180 |
| .601 | 4.818 | .01700 | .02040 | .00000 | .02970 | .00340 | .02970 | -.13360 |
| .598 | 7.859 | .01700 | .02040 | .00000 | .02970 | .00340 | .02970 | -.13360 |
| .596 | 9.960 | .01700 | .02040 | .00000 | .02970 | .00340 | .02970 | -.13360 |
| .596 | 11.968 | .01700 | .02040 | .00000 | .02970 | .00340 | .02970 | -.13360 |
| .599 | 14.976 | .01700 | .02040 | .00000 | .03960 | .00340 | .03960 | -.13360 |
| .598 | 16.975 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -.13360 |
| .597 | 18.969 | .02550 | .02040 | .01150 | .03960 | -.00510 | .02810 | -.13360 |
| .597 | GRADIENT | .00168 | -.00000 | -.00000 | .00000 | -.00168 | .00000 | .00162 |

PARAMETRIC DATA

BETA = .000 ELEVON = .000

AILRON = .000 BOFLAP = .000

SPDBRK = 7.500 RUDDER = .000

RN/L = 5.000

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(02F084) (08 JUL 77)

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REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPOBRK = 7.500 RUDDER = .000
RN/L = 5.000

RUN NO. 904/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|--------|--------|---------|
| .799 | -5.257 | .0000 | .0204 | .0000 | .0396 | .0204 | .0396 | -.15000 |
| .802 | -.228 | .0000 | .0204 | .0000 | .0396 | .0204 | .0396 | -.15000 |
| .797 | 2.285 | .0000 | .0204 | .0000 | .0396 | .0204 | .0396 | -.15000 |
| .798 | 4.818 | .0000 | .0204 | .0000 | .0396 | .0204 | .0396 | -.15000 |
| .799 | 7.935 | .0000 | .0204 | .0000 | .0396 | .0204 | .0396 | -.15000 |
| .799 | 9.988 | .0000 | .0204 | .0000 | .0396 | .0204 | .0396 | -.15000 |
| .798 | 11.987 | .0000 | .0204 | .0115 | .0396 | .0204 | .0281 | -.15000 |
| .799 | 15.038 | .0000 | .0204 | .0115 | .0396 | .0204 | .0281 | -.17190 |
| .798 | 17.032 | .0085 | .0204 | .0115 | .0396 | .0119 | .0281 | -.20460 |
| .798 | 18.998 | .0000 | .0102 | .0230 | .0396 | .0102 | .0166 | -.29210 |
| | GRADIENT | .0000 | -.0000 | .0000 | -.0000 | -.0000 | -.0000 | .00000 |

RUN NO. 901/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|-------|--------|---------|
| .900 | -5.281 | .0000 | .0204 | .0115 | .0495 | .0204 | .0380 | -.16090 |
| .899 | -.261 | .0000 | .0204 | .0115 | .0396 | .0204 | .0281 | -.16090 |
| .899 | 2.287 | .0000 | .0204 | .0115 | .0495 | .0204 | .0380 | -.16090 |
| .900 | 4.844 | .0000 | .0204 | .0115 | .0495 | .0204 | .0380 | -.15000 |
| .903 | 7.961 | .0000 | .0204 | .0115 | .0495 | .0204 | .0380 | -.15000 |
| .899 | 9.988 | .0000 | .0204 | .0115 | .0495 | .0204 | .0380 | -.15000 |
| .900 | 12.006 | .0000 | .0204 | .0115 | .0495 | .0204 | .0380 | -.15000 |
| .903 | 15.065 | .0085 | .0204 | .0115 | .0495 | .0119 | .0380 | -.15000 |
| .901 | 17.038 | .0085 | .0204 | .0115 | .0495 | .0119 | .0380 | -.15000 |
| .902 | 19.016 | .0170 | .0204 | .0115 | .0495 | .0034 | .0380 | -.15000 |
| | GRADIENT | .0000 | .0000 | -.0000 | .00194 | .0000 | .00194 | .00214 |

RUN NO. 899/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|--------|-------|---------|
| .953 | -5.294 | .0255 | .0204 | .0115 | .0297 | -.0051 | .0182 | -.12540 |
| .949 | -.273 | .0170 | .0204 | .0115 | .0297 | .0034 | .0182 | -.12540 |
| .951 | 2.304 | .0255 | .0204 | .0115 | .0297 | -.0051 | .0182 | -.13360 |
| .951 | 4.859 | .0170 | .0204 | .0115 | .0297 | .0034 | .0182 | -.13360 |
| .952 | 7.988 | .0255 | .0204 | .0115 | .0396 | -.0051 | .0281 | -.13360 |
| .950 | 10.022 | .0170 | .0204 | .0115 | .0396 | .0034 | .0281 | -.14180 |
| .952 | 12.038 | .0255 | .0204 | .0115 | .0396 | -.0051 | .0281 | -.14180 |
| .951 | 15.065 | .0255 | .0204 | .0115 | .0396 | .0051 | .0281 | -.14180 |
| .946 | 17.046 | .0255 | .0204 | .0115 | .0396 | -.0051 | .0281 | -.14180 |
| .950 | 18.994 | .0340 | .0102 | .0115 | .0396 | -.0238 | .0281 | -.15000 |
| | GRADIENT | .0000 | -.0000 | .0000 | -.0000 | -.0000 | .0000 | -.00160 |

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(D2F085) (08 JUL 77)

REFERENCE DATA

| | | | | | | | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|--------|--------|---|-------|--------|---|------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. XO | BETA | = | 2.000 | ELEVON | = | .000 |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. YO | AIRLON | = | .000 | BOFLAP | = | .000 |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. ZO | SPDBRK | = | 7.500 | RUDDER | = | .000 |
| SCALE | = | .0500 | | | | | | RN/L | = | 5.000 | | | |

PARAMETRIC DATA

| | | | |
|---------|--------|-------------|---------------------------------|
| RUN NO. | 907/ 0 | RN/L = 5.00 | GRADIENT INTERVAL = -5.00/ 5.00 |
|---------|--------|-------------|---------------------------------|

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRAL |
|------|----------|---------|---------|--------|---------|---------|---------|---------|
| .597 | -5.251 | .01700 | .02040 | .00000 | .03960 | .00340 | .03960 | -.13360 |
| .600 | -.252 | .01700 | .02040 | .00000 | .03960 | .00340 | .03960 | -.13360 |
| .598 | 2.309 | .01700 | .02040 | .00000 | .03960 | .00340 | .03960 | -.13360 |
| .597 | 4.929 | .01700 | .02040 | .00000 | .03960 | .00340 | .03960 | -.13360 |
| .598 | 8.026 | .01700 | .02040 | .00000 | .03960 | .00340 | .03960 | -.13360 |
| .597 | 10.057 | .01700 | .02040 | .00000 | .03960 | .00340 | .03960 | -.13360 |
| .597 | 12.075 | .02550 | .02040 | .00000 | .03960 | -.00510 | .03960 | -.13360 |
| .597 | 15.063 | .01700 | .02040 | .00000 | .03960 | .00340 | .03960 | -.13360 |
| .596 | 17.047 | .01700 | .02040 | .00000 | .03960 | .00340 | .03960 | -.13360 |
| .597 | 18.985 | .02550 | .01020 | .01150 | .08910 | -.01530 | .07760 | -.13360 |
| | GRADIENT | -.00000 | -.00000 | .00000 | -.00000 | -.00000 | -.00000 | .00000 |

| RUN NO. | 905/ 0 | RN/L = | 4.99 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|---------|--------|--------|------|---------------------|--------|------|
|---------|--------|--------|------|---------------------|--------|------|

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|---------|---------|---------|---------|---------|---------|
| .799 | -5.272 | .0000 | .0240 | .01150 | .0360 | .0240 | .02810 | -.25930 |
| .797 | -.268 | .0000 | .0340 | .01150 | .0360 | .0240 | .02810 | -.25930 |
| .790 | 2.290 | .0000 | .0240 | .01150 | .0360 | .0240 | .02810 | -.25930 |
| .798 | 4.935 | .0000 | .0240 | .01150 | .0360 | .0240 | .02810 | -.25930 |
| .799 | 8.062 | .0000 | .0240 | .01150 | .0360 | .0240 | .02810 | -.25930 |
| .800 | 10.105 | .0000 | .0240 | .00000 | .0360 | .0240 | .0360 | -.24840 |
| .798 | 12.085 | .0000 | .0240 | .01150 | .04950 | .0240 | .03800 | -.24840 |
| .798 | 15.111 | .0000 | .0240 | .01150 | .0360 | .0240 | .02810 | -.27020 |
| .801 | 17.085 | .0000 | .0240 | .01150 | .04950 | .0240 | .03800 | -.28110 |
| .800 | 19.038 | .0000 | .0240 | .02300 | .04950 | .0240 | .02650 | -.27020 |
| | GRADIENT | .0000 | -.00000 | -.00000 | -.00000 | -.00000 | -.00000 | -.00000 |

| | | | |
|---------|--------|-------------|---------------------------------|
| RUN NC. | 902/ 0 | RN/L = 4.98 | GRADIENT INTERVAL = -5.00/ 5.00 |
|---------|--------|-------------|---------------------------------|

[illegible]

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OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(02F085) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8100 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0500

RUN NO. 900/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|--------|---------|---------|---------|--------|---------|
| .951 | -5.322 | .01700 | .02040 | .01150 | .03950 | .00340 | .02810 | -.16090 |
| .950 | -.263 | .01700 | .02040 | .01150 | .03960 | .00340 | .02810 | -.16090 |
| .951 | 2.301 | .01700 | .02040 | .01150 | .03960 | .00340 | .02810 | -.16090 |
| .953 | 4.932 | .01700 | .02040 | .01150 | .03960 | .00340 | .02810 | -.16090 |
| .953 | 8.061 | .01700 | .02040 | .01150 | .03960 | .00340 | .02810 | -.16090 |
| .951 | 10.129 | .01700 | .02040 | .01150 | .03960 | .00340 | .02810 | -.16090 |
| .952 | 12.137 | .01700 | .02040 | .01150 | .03960 | .00340 | .02810 | -.15000 |
| .951 | 15.160 | .02550 | .02040 | .01150 | .03960 | -.00510 | .02810 | -.15000 |
| .949 | 17.095 | .03400 | .02040 | .01150 | .03960 | -.01360 | .02810 | -.15000 |
| .950 | 19.061 | .01700 | .02040 | .01150 | .04950 | .00340 | .03800 | -.15000 |
| | GRADIENT | -.00000 | .00000 | -.00000 | -.00000 | .00000 | .00000 | .00000 |

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 7.500 RUDDER = .000
 RN/L = 5.000

AMES 118-1-11 OAI45A 01

(02F086) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8100 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0500

RUN NO. 908/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|---------|--------|-----------|
| .598 | -10.762 | .02550 | .02040 | .00000 | .01980 | -.00510 | .01980 | -13.03800 |
| .598 | -4.939 | .02550 | .02040 | .00000 | .01980 | -.00510 | .01980 | -6.01000 |
| .598 | -2.434 | .02550 | .02040 | .00000 | .01980 | -.00510 | .01980 | -2.96470 |
| .598 | -1.103 | .02550 | .02040 | .00000 | .01980 | -.00510 | .01980 | -.12540 |
| .598 | 2.496 | .02550 | .02040 | .00000 | .01980 | -.00510 | .01980 | 3.04020 |
| .598 | 5.014 | .02550 | .02040 | .00000 | .01980 | -.00510 | .01980 | 6.10130 |
| .598 | 10.011 | .02550 | .02040 | .00000 | .01980 | -.00510 | .01980 | 12.13700 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | -.00000 | .00000 | 1.21728 |

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BOFLAP = .000 SPDBRK = 7.500
 RN/L = 5.000

DATE 10 MAR 80

OAI145 TABULATED FORCE DATA

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AMES 118-1-11 OAI145A 01

(02F086) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 903/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|---------|--------|--------|---------|--------|-----------|
| .901 | -10.771 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | -13.04900 |
| .901 | -4.961 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | -6.03730 |
| .900 | -2.459 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | -2.99440 |
| .901 | -1.110 | .00000 | .02040 | .01150 | .03960 | .02040 | .02810 | -1.13360 |
| .901 | 2.522 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | 3.07160 |
| .901 | 5.014 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | 6.10130 |
| .901 | 10.011 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | 12.13700 |
| | GRADIENT | .00000 | -.00000 | .00000 | .00037 | -.00000 | .00037 | 1.21725 |

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BOFLAP = .000 SPOBRK = 7.500
 RN/L = 5.000

PARAMETRIC DATA

AMES 118-1-11 OAI145A 01

(02F087) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 705/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|--------|--------|--------|---------|--------|---------|
| .599 | -5.021 | .03400 | .03060 | .01150 | .01980 | -.00340 | .00830 | -.12540 |
| .600 | -.730 | .03400 | .03060 | .01150 | .01980 | -.00340 | .00830 | -.10890 |
| .598 | -.026 | .03400 | .03060 | .01150 | .01980 | -.00340 | .00830 | -.11710 |
| .598 | 2.464 | .00000 | .03060 | .01150 | .01980 | .03060 | .00830 | -.12540 |
| .598 | 4.875 | .00000 | .03060 | .01150 | .01980 | .03060 | .00830 | -.12540 |
| .598 | 6.905 | .00000 | .03060 | .01150 | .01980 | .03060 | .00830 | -.12540 |
| .598 | 7.928 | .00000 | .03060 | .01150 | .01980 | .03060 | .00830 | -.12540 |
| .598 | 10.080 | .00000 | .03060 | .01150 | .01980 | .03060 | .00830 | -.14180 |
| .598 | 12.074 | .02550 | .03060 | .01150 | .01980 | .00510 | .00830 | -.10890 |
| .598 | 15.094 | .02550 | .03060 | .01150 | .01980 | .00510 | .00830 | -.14180 |
| | GRADIENT | -.00704 | .00000 | .00000 | .00000 | .00704 | .00000 | -.00272 |

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPOBRK = 15.000 RUDDER = .000
 RN/L = 5.000

PARAMETRIC DATA

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(D2F087) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BOFLAP = .000
SPDBRK = 15.000 RUDDER = .000
RN/L = 5.000

RUN NO. 699/ 0 RN/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|--------|---------|--------|---------|---------|---------|
| .798 | -5.054 | -.01010 | .03060 | .01150 | .00990 | .04070 | -.00160 | -.15000 |
| .801 | -.045 | -.02020 | .03060 | .01150 | .00990 | .03080 | -.00160 | -.15000 |
| .798 | 2.501 | -.02020 | .03060 | .01150 | .00990 | .05080 | -.00160 | -.15000 |
| .799 | 5.043 | -.02020 | .03060 | .01150 | .00990 | .05080 | -.00160 | -.15000 |
| .801 | 7.163 | .01700 | .03060 | .00000 | .00990 | .01360 | .00990 | -.15000 |
| .797 | 8.158 | .00850 | .03060 | .00000 | .00990 | .02210 | .00990 | -.16090 |
| .799 | 10.163 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | -.15000 |
| .799 | 12.191 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | -.15000 |
| .803 | 15.244 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | -.15000 |
| GRADIENT | | .00000 | .00000 | -.00000 | .00000 | -.00000 | .00000 | .00000 |

RUN NO. 693/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|--------|--------|--------|--------|---------|---------|
| .900 | -5.101 | .01700 | .03060 | .00000 | .00990 | .01360 | .00990 | -.09250 |
| .902 | -.097 | .01700 | .03060 | .00000 | .00990 | .01360 | .00990 | -.07610 |
| .900 | 2.455 | .00850 | .03060 | .00000 | .00990 | .02210 | .00990 | -.05140 |
| .901 | 4.988 | .01700 | .03060 | .00000 | .00990 | .01360 | .00990 | -.05960 |
| .902 | 7.071 | .00850 | .03060 | .00000 | .00990 | .02210 | .00990 | -.03500 |
| .901 | 8.097 | .00850 | .03060 | .00000 | .00990 | .02210 | .00990 | -.02680 |
| .900 | 10.128 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | -.01040 |
| .902 | 12.172 | .00850 | .03060 | .00000 | .00990 | .02210 | .00990 | .02250 |
| .904 | 15.196 | .02550 | .03060 | .01150 | .00990 | .00510 | -.00160 | .06360 |
| GRADIENT | | -.00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00325 |

RUN NO. 680/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|--------|---------|---------|--------|---------|--------|---------|
| .952 | -4.960 | .00850 | .03060 | .01150 | .01980 | .02210 | .00830 | -.15000 |
| .951 | .083 | .01700 | .03060 | .01150 | .02970 | .01360 | .01820 | -.14180 |
| .949 | 2.656 | .01700 | .03060 | .01150 | .01980 | .01360 | .00830 | -.09250 |
| .946 | 5.202 | .00000 | .03060 | .01150 | .01980 | .03060 | .00830 | -.05960 |
| .945 | 7.290 | .00850 | .03060 | .01150 | .01980 | .02210 | .00830 | -.05140 |
| .947 | 8.261 | .01700 | .03060 | .01150 | .01980 | .01360 | .00830 | -.05140 |
| .950 | 10.352 | .01700 | .03060 | .01150 | .01980 | .01360 | .00830 | .08000 |
| .943 | 12.388 | .03400 | .03060 | .01150 | .02970 | -.00340 | .01820 | -.08430 |
| .939 | 15.425 | .01700 | .02040 | .01150 | .01400 | .00340 | .00830 | -.12540 |
| GRADIENT | | .00119 | -.00000 | -.00000 | .00027 | -.00119 | .00027 | .00673 |

(02F087) (08 JUL 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6E03 IN. XO BETA = .000 ELEVON = .000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BDFLAP = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDBRK = 15.000 RUDDER = .000
SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 679/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|--------|--------|--------|---------|---------|
| 1.199 | -4.855 | .01700 | .04080 | .01150 | .00990 | .02380 | -.00160 | -.15000 |
| 1.196 | .082 | .00850 | .04080 | .01150 | .00990 | .03230 | -.00160 | -.15000 |
| 1.202 | 2.679 | .00000 | .03060 | .01150 | .00990 | .03060 | -.00160 | -.15000 |
| 1.197 | 5.253 | .00850 | .04080 | .01150 | .00990 | .03230 | -.00160 | -.15000 |
| 1.196 | 7.191 | .00000 | .04080 | .01150 | .00990 | .04080 | -.00160 | -.15000 |
| 1.198 | 8.218 | .00000 | .03060 | .01150 | .00990 | .03060 | -.00160 | -.15000 |
| 1.198 | 10.353 | .00000 | .04080 | .00000 | .00990 | .04080 | -.00160 | -.15000 |
| 1.195 | 12.408 | -.02020 | .04080 | .01150 | .00990 | .06100 | -.00160 | -.15000 |
| 1.186 | 15.444 | .00000 | .03060 | .01150 | .00990 | .03060 | -.00160 | -.15000 |
| | GRADIENT | -.00219 | -.00118 | .00000 | .00000 | .00101 | -.00000 | -.00000 |

RUN NO. 666/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|--------|--------|--------|--------|--------|---------|
| 1.402 | -4.098 | .01700 | .03060 | .01150 | .02970 | .01360 | .01820 | -.15000 |
| 1.406 | -.074 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -.15000 |
| 1.401 | 2.457 | .00000 | .03060 | .01150 | .02970 | .03060 | .01820 | -.15000 |
| 1.399 | 5.049 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -.15000 |
| 1.399 | 7.093 | .00000 | .04080 | .00000 | .02970 | .04080 | .02970 | -.15000 |
| 1.403 | 8.128 | .00850 | .04080 | .01150 | .02970 | .03230 | .01820 | -.14180 |
| 1.399 | 10.176 | .00000 | .04080 | .01150 | .02970 | .04080 | .01820 | -.14180 |
| 1.402 | 12.197 | .00000 | .04080 | .01150 | .02970 | .04080 | .01820 | -.14180 |
| 1.400 | 15.229 | .01700 | .04080 | .01150 | .02970 | .02380 | .01820 | -.14180 |
| | GRADIENT | -.00255 | .00000 | .00000 | .00000 | .00255 | .00000 | .00000 |

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 AMES 118-1-11 OAI45A 01

(D2F088) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 15.000 RUDDER = .000
 RN/L = 5.000

| MACH | BETA | RUN NO. 703/ 0 RN/L = 4.95 | | | | GRADIENT INTERVAL = -5.00/ 5.00 | | | |
|------|----------|----------------------------|--------|--------|--------|---------------------------------|--------|---------|--|
| | | ELV-L0 | ELV-L1 | ELV-R0 | ELV-R1 | DELL | DELR | DRHL | |
| .597 | -6.068 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -.15000 | |
| .597 | -1.938 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -.16090 | |
| .597 | -.899 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -.16090 | |
| .597 | .027 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -.16090 | |
| .597 | .488 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -.17190 | |
| .597 | 1.021 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -.12540 | |
| .597 | 2.088 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -.13360 | |
| .597 | 3.130 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -.14180 | |
| .597 | 4.160 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -.15000 | |
| .597 | 6.220 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -.15000 | |
| .597 | GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00379 | |

| MACH | BETA | RUN NO. 698/ 0 RN/L = 4.93 | | | | GRADIENT INTERVAL = -5.00/ 5.00 | | | |
|------|----------|----------------------------|--------|--------|--------|---------------------------------|---------|---------|--|
| | | ELV-L0 | ELV-L1 | ELV-R0 | ELV-R1 | DELL | DELR | DRHL | |
| .798 | -6.115 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | -.01060 | |
| .799 | -1.977 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | -.07610 | |
| .799 | -.939 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | -.08430 | |
| .800 | .116 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | -.09250 | |
| .798 | .614 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | -.10070 | |
| .799 | 1.142 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | -.10890 | |
| .798 | 2.182 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | -.11710 | |
| .797 | 3.225 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | -.12540 | |
| .799 | 4.265 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | -.15000 | |
| .795 | 6.333 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | -.15000 | |
| .795 | GRADIENT | -.00000 | .00000 | .00000 | .00000 | .00000 | -.00000 | -.00814 | |

| MACH | BETA | RUN NO. 692/ 0 RN/L = 4.96 | | | | GRADIENT INTERVAL = -5.00/ 5.00 | | | |
|------|----------|----------------------------|--------|---------|--------|---------------------------------|---------|---------|--|
| | | ELV-L0 | ELV-L1 | ELV-R0 | ELV-R1 | DELL | DELR | DRHL | |
| .901 | -6.132 | .00850 | .03060 | .02300 | .00990 | .02210 | -.01310 | -.06360 | |
| .902 | -1.975 | .00000 | .03060 | .02300 | .00990 | .03060 | -.01310 | -.05960 | |
| .899 | -.920 | .00000 | .03060 | .02300 | .00990 | .03060 | -.01310 | -.08430 | |
| .899 | .007 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | -.11710 | |
| .899 | .642 | .00000 | .03060 | .01150 | .00990 | .03060 | -.00160 | -.07610 | |
| .898 | 1.176 | .00000 | .03060 | .01150 | .00990 | .03060 | -.00160 | -.09250 | |
| .899 | 2.216 | .00000 | .03060 | .01150 | .00990 | .03060 | -.00160 | -.08430 | |
| .899 | 3.266 | .00000 | .03060 | .01150 | .00990 | .03060 | -.00160 | -.09250 | |
| .898 | 4.309 | .00000 | .03060 | .01150 | .00990 | .03060 | -.00160 | -.10890 | |
| .898 | 6.379 | .00000 | .03060 | .01150 | .00990 | .03060 | -.00160 | -.12540 | |
| .898 | GRADIENT | -.00030 | .00000 | -.00187 | .00000 | .00030 | .00187 | -.00454 | |

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0A145 TABULATED FORCE DATA

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(D2F088) (08 JUL 77)

REFERENCE DATA

| | | | | | | | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|--------|--------|---|--------|--------|---|------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. X0 | ALPHA | = | 5.000 | ELEVON | = | .000 |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. Y0 | AILRON | = | .000 | BOFLAP | = | .000 |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. Z0 | SPDBRK | = | 15.000 | RUDDER | = | .000 |
| SCALE | = | .0500 | | | | | | RN/I | = | 5.000 | | | |

PARAMETRIC DATA

| RUN NO. | 681/ 0 | RN/L = | 4.97 | GRADIENT | INTERVAL = | -5.00/ | 5.00 | |
|----------|--------|--------|--------|----------|------------|--------|---------|--|
| BETA | | | | | | | | |
| -6.112 | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL | |
| -1.964 | .02550 | .03060 | .01150 | .02970 | .00510 | .01820 | .06360 | |
| -.919 | .03400 | .03060 | .01150 | .01980 | -.00340 | .00830 | -.05960 | |
| .025 | .03400 | .03060 | .01150 | .02970 | -.00340 | .01820 | -.10070 | |
| .538 | .03400 | .03060 | .01150 | .02970 | -.00340 | .01820 | -.10890 | |
| 1.067 | .03400 | .03060 | .01150 | .01980 | -.00340 | .01820 | -.10890 | |
| 2.140 | .03400 | .03060 | .01150 | .02970 | -.00340 | .03830 | -.11710 | |
| 3.190 | .03400 | .03060 | .01150 | .02970 | -.00340 | .01820 | -.13360 | |
| 4.226 | .03400 | .03060 | .01150 | .02970 | -.00340 | .01820 | -.14180 | |
| 6.307 | .03400 | .03060 | .01150 | .02970 | -.00340 | .01820 | -.15000 | |
| GRADIENT | .00000 | .00000 | .00000 | .00098 | -.00000 | .00098 | -.01306 | |

| RUN NO. | 678/ 0 | RN/L | = 4.99 | GRADIENT | INTERVAL | = -5.00/ | 5.00 | |
|----------|--------|--------|--------|----------|----------|----------|---------|---------|
| BETA | | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
| -6.191 | | .00850 | .04080 | .01150 | .00990 | .03230 | -.00160 | -.15000 |
| -2.054 | | .00850 | .04080 | .00000 | .00990 | .03230 | .00990 | -.15000 |
| -1.016 | | .01700 | .04080 | .01150 | .00990 | .02380 | -.00160 | -.15000 |
| .110 | | .00000 | .04080 | .00000 | .00990 | .04080 | .00990 | -.15000 |
| .689 | | .00000 | .04080 | .00000 | .00990 | .04080 | .00990 | -.15000 |
| 1.167 | | .00000 | .04080 | .00000 | .00990 | .04080 | .00990 | -.15000 |
| 2.197 | | .01700 | .04080 | .00000 | .00990 | .02380 | .00990 | -.15000 |
| 3.241 | | .05100 | .04080 | .00000 | .00990 | -.01020 | .00990 | -.15000 |
| 4.285 | | .06800 | .04080 | .00000 | .00990 | -.02720 | .00990 | -.15000 |
| 6.357 | | .00850 | .04080 | .00000 | .00990 | .03230 | .00990 | -.16090 |
| GRADIENT | | .00906 | .00000 | -.00076 | .00000 | -.00906 | .00076 | -.00000 |

| RUN NO. | 667/ 0 | RI/L = | 4.96 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|----------|--------|--------|--------|---------------------|--------|--------|
| BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR |
| -6.115 | .00850 | .04080 | .01150 | .02970 | .03230 | .01820 |
| -1.971 | .00850 | .04080 | .01150 | .02970 | .03230 | .01820 |
| -.913 | .00850 | .04080 | .01150 | .02970 | .03230 | .01820 |
| .148 | .00850 | .04080 | .01150 | .02970 | .03230 | .01820 |
| .624 | .00850 | .04080 | .01150 | .02970 | .03230 | .01820 |
| 1.158 | .00850 | .04080 | .01150 | .02970 | .03230 | .01820 |
| 2.218 | .00850 | .04080 | .01150 | .02970 | .03230 | .01820 |
| 3.272 | .00850 | .04080 | .01150 | .02970 | .03230 | .01820 |
| 4.321 | .00850 | .04080 | .01150 | .02970 | .03230 | .01820 |
| 6.405 | .01700 | .04080 | .00000 | .02970 | .02380 | .02970 |
| GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 |
| | | | | | | .00068 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

AMES 118-1-11 0A145A 01

(D2F089) (08 JUL 77)

REFERENCE DATA

| | | |
|-------|---|-----------|
| SREF | = | 2690.0000 |
| LREF | = | 474.8100 |
| BREF | = | 936.6800 |
| SCALE | = | .0500 |

| | | | |
|---|-----------|-----|----|
| = | 1076.6800 | IN. | X0 |
| = | .0000 | IN. | Y0 |
| = | 375.0000 | IN. | Z0 |

PARAMETRIC DATA

| | | | | | |
|--------|---|-------|--------|---|--------|
| ALPHA | = | .000 | BETA | = | .000 |
| ELEVON | = | .000 | AILRON | = | .000 |
| BDFLAP | = | .000 | SPDBRK | = | 15.000 |
| RN/L | = | 5.000 | | | |

| Case No. | BN/1 | GRADIENT INTERVAL | BN/1 | GRADIENT INTERVAL |
|----------|------|-------------------|------|-------------------|
| 700/0 | 4.95 | -5.00/ | 5.00 | |

| MACH | RUDDER | ELV.-LO | ELV.-LI | ELV.-RO | ELV.-RI | DELL | DELR | DRHL |
|------|---------|---------|---------|---------|---------|---------|---------|-----------|
| .597 | -14.970 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | -18.04400 |
| .598 | -10.691 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | -12.95200 |
| .597 | -4.961 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | -6.03730 |
| .597 | -2.418 | .02550 | .03060 | .00000 | .00990 | .00510 | .00990 | -2.94490 |
| .597 | -.123 | .02550 | .03060 | .01150 | .00990 | .00510 | -.00160 | -.15000 |
| .597 | 2.505 | .02550 | .03060 | .01150 | .00990 | .00510 | -.00160 | 3.05070 |
| .598 | 5.024 | .02550 | .03060 | .01150 | .00990 | .00510 | -.00160 | 6.11260 |
| .597 | 10.027 | .02550 | .03060 | .01150 | .00990 | .00510 | -.00160 | 12.15600 |
| .597 | 15.031 | .02550 | .03060 | .01150 | .00990 | .00510 | -.00160 | 18.11600 |
| .596 | 16.143 | .02550 | .03060 | .01150 | .00990 | .00510 | -.00160 | 21.76200 |
| .597 | 22.836 | .02550 | .03060 | .01150 | .00990 | .00510 | -.00160 | 27.15900 |
| | | .00207 | .00000 | .00044 | .00000 | -.00207 | -.00044 | 1.21275 |

RUN NO. 694 / 0 RN/L = 4.92

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|---------|---------|--------|---------|-----------|
| .800 | -14.915 | .00850 | .02040 | .01150 | .00990 | .01190 | -.00160 | -18.03800 |
| .798 | -10.771 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | -13.06000 |
| .799 | -4.947 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | -6.01910 |
| .799 | -2.418 | .00850 | .02040 | .01150 | .00990 | .01190 | -.00160 | -2.94490 |
| .798 | -1.103 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | -.12540 |
| .799 | 2.496 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | 3.04020 |
| .800 | 5.024 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | 6.11260 |
| .799 | 10.003 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | 12.12800 |
| .798 | 15.199 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | 18.31300 |
| .799 | 18.161 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | 21.78300 |
| .799 | 22.827 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | 27.14900 |
| .798 | GRADIENT | .00000 | .00039 | -.00000 | -.00000 | .00039 | .00000 | 1.21727 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(02F089) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2630.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = .000 BETA = .000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 AILRON = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO BOFLAP = .000 SPOBRK = 15.000
SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 688/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|---------|---------|---------|---------|---------|-----------|
| .900 | -14.955 | .01700 | .03060 | -.02140 | .00990 | .01360 | .03130 | -18.02600 |
| .899 | -10.736 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | -13.00600 |
| .901 | -4.961 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | -6.03730 |
| .900 | -2.442 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | -2.97460 |
| .899 | -1.116 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | -1.14180 |
| .902 | 2.513 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | 3.06120 |
| .900 | 5.005 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | 6.09000 |
| .899 | 10.019 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | 12.14700 |
| .901 | 14.996 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | 18.07400 |
| .900 | 18.107 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | 21.72100 |
| .899 | 22.836 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | 27.15900 |
| | GRADIENT | .00000 | -.00000 | -.00000 | -.00000 | -.00000 | .00000 | 1.21727 |

RUN NO. 685/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|---------|--------|--------|---------|---------|-----------|
| .950 | -14.965 | .00000 | .03060 | .02300 | .00990 | .03060 | -.01310 | -18.03800 |
| .951 | -10.762 | .00000 | .03060 | .01150 | .00990 | .03060 | -.00160 | -13.03800 |
| .952 | -4.947 | .00000 | .03060 | .01150 | .00990 | .03060 | -.00160 | -6.01910 |
| .952 | -2.451 | .00000 | .03060 | .01150 | .00990 | .03060 | -.00160 | -2.98450 |
| .951 | -1.116 | .00000 | .03060 | .01150 | .00990 | .03060 | -.00160 | -1.14180 |
| .951 | 2.488 | .00000 | .03060 | .01150 | .00990 | .03060 | -.00160 | 3.02970 |
| .950 | 5.024 | .00000 | .03060 | .01150 | .00990 | .03060 | -.00160 | 6.11260 |
| .950 | 10.027 | .00000 | .03060 | .01150 | .00990 | .03060 | -.00160 | 12.15600 |
| .951 | 15.005 | .00000 | .03060 | .01150 | .00990 | .03060 | -.00160 | 18.08500 |
| .949 | 18.107 | .00000 | .03060 | .01150 | .00990 | .03060 | -.00160 | 21.72100 |
| .950 | 22.836 | .00000 | .03060 | .01150 | .00990 | .03060 | -.00160 | 27.15900 |
| | GRADIENT | .00000 | -.00000 | .00000 | .00000 | -.00000 | .00000 | 1.21727 |

DATE 10 MAR 80

QAI45 TABULATED FORCE DATA

PAGE 1465

AMES 118-1-11 QAI45A 01

(02F089) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

ALPHA = .000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = 15.000
 RN/L = 5.000

PARAMETRIC DATA

| RUN NO. | 673/ 0 | RN/L = 5.08 | GRADIENT INTERVAL = -5.00/ 5.00 |
|----------|--------|-------------|---------------------------------|
| MACH | ELV-LO | ELV-LI | ELV-RO |
| 1.200 | .00000 | .04080 | .01150 |
| 1.199 | .00000 | .04080 | .01150 |
| 1.201 | .00000 | .04080 | .01150 |
| 1.201 | .00000 | .04080 | .01150 |
| 1.200 | .00000 | .04080 | .01150 |
| 1.200 | .00000 | .04080 | .01150 |
| 1.199 | .00000 | .04080 | .01150 |
| 1.200 | .00000 | .04080 | .01150 |
| 1.199 | .00000 | .04080 | .01150 |
| 1.197 | .00000 | .04080 | .01150 |
| GRADIENT | .00000 | .00000 | .00000 |

| RUN NO. | 670/ 0 | RN/L = 4.93 | GRADIENT INTERVAL = -5.00/ 5.00 |
|----------|--------|-------------|---------------------------------|
| MACH | ELV-LO | ELV-LI | ELV-RO |
| 1.404 | .00000 | .03060 | .01150 |
| 1.404 | .01700 | .03060 | .01150 |
| 1.404 | .01700 | .03060 | .01150 |
| 1.403 | .01700 | .03060 | .01150 |
| 1.403 | .03400 | .03060 | .01150 |
| 1.403 | .04250 | .03060 | .01150 |
| 1.404 | .04250 | .03060 | .01150 |
| 1.403 | .04250 | .03060 | .01150 |
| 1.402 | .03400 | .03060 | .01150 |
| 1.402 | .03400 | .03060 | .01150 |
| GRADIENT | .00376 | .00000 | .00097 |

| DEL R | DEL L | ELV-RI | DRHL |
|--------|--------|--------|-----------|
| .00830 | .03060 | .01980 | -18.04400 |
| .00830 | .01360 | .01980 | -13.00600 |
| .00830 | .01360 | .01980 | -6.02820 |
| .00830 | .01360 | .01980 | -2.96470 |
| .00830 | .00340 | .01980 | -1.7190 |
| .00830 | .01190 | .01980 | 3.07160 |
| .00830 | .01190 | .01980 | 6.10130 |
| .00830 | .00170 | .01980 | 12.12800 |
| .00990 | .01190 | .00990 | 18.11600 |
| .01980 | .00340 | .01980 | 21.73100 |
| .01980 | .00340 | .01980 | 27.13800 |
| .00097 | .00376 | .00000 | 1.21725 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1457

AMES 118-1-11 0A145A 01

(02F090) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 AILRON = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO BDFLAP = .000 SPDBRK = 15.000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 702/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00
 MACH
 RUDDER
 -14.960
 -10.754
 -4.939
 -2.426
 -.096
 2.406
 5.105
 10.019
 15.031
 16.103
 22.836
 GRADIENT
 ELV-LO .00850
 ELV-LI .03060
 ELV-RO .01150
 ELV-RI .00990
 DELI .02210
 DELR .00160
 DRHL -18.03200
 -13.02800
 -6.01000
 -2.95480
 -.11710
 3.04020
 6.09000
 12.14700
 18.11600
 21.76200
 27.15900
 1.21728

RUN NO. 696/ 0 RN/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00
 MACH
 RUDDER
 -14.960
 -10.736
 -2.442
 -1.316
 -.123
 2.496
 5.014
 10.011
 15.005
 18.125
 22.818
 GRADIENT
 ELV-LO .01700
 ELV-LI .03060
 ELV-RO .01150
 ELV-RI .00990
 DELI .01360
 DELR .00160
 DRHL -18.03200
 -13.00600
 -2.97460
 -1.60330
 -.15000
 3.04020
 6.10130
 12.13700
 18.08500
 21.74200
 27.13800
 1.21794

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1468

(D2F090) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = 15.000
 RN/L = 5.000

RUN NO. 690/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|---------|--------|--------|---------|-----------|
| .900 | -14.965 | .0000 | .03060 | .01150 | .00990 | .03060 | -.00160 | -18.03800 |
| .900 | -10.754 | .0000 | .03060 | .01150 | .00990 | .03060 | -.00160 | -13.02800 |
| .902 | -4.924 | .0000 | .03060 | .01150 | .00990 | .03060 | -.00160 | -5.99180 |
| .900 | -2.451 | .0000 | .03060 | .01150 | .00990 | .03060 | -.00160 | -2.98450 |
| .900 | -1.03 | .0000 | .03060 | .01150 | .00990 | .03060 | -.00160 | -1.2540 |
| .900 | 2.496 | .0000 | .03060 | .00000 | .00990 | .03060 | .00990 | 3.04020 |
| .899 | 5.014 | .0000 | .03060 | .01150 | .00990 | .03060 | -.00160 | 6.10130 |
| .899 | 10.011 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | 12.13700 |
| .899 | 15.014 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | 18.09500 |
| .900 | 18.134 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | 21.75200 |
| .900 | 22.846 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | 27.17000 |
| | GRADIENT | .00000 | .00000 | -.00142 | .00000 | .00000 | .00142 | 1.21728 |

RUN NO. 684/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|---------|--------|--------|---------|-----------|
| .951 | -14.970 | .00850 | .02040 | .01150 | .00990 | .01190 | -.00160 | -18.04400 |
| .951 | -10.745 | .00850 | .02040 | .01150 | .00990 | .01190 | -.00160 | -13.01700 |
| .951 | -4.932 | .00000 | .02040 | .01150 | .00990 | .02040 | -.00160 | -6.00090 |
| .950 | -2.451 | .00000 | .02040 | .01150 | .00990 | .02040 | -.00160 | -2.98450 |
| .951 | -.056 | .00000 | .02040 | .01150 | .00990 | .02040 | -.00160 | -.06790 |
| .951 | 2.496 | .00000 | .03060 | .01150 | .00990 | .03060 | -.00160 | 3.04020 |
| .952 | 5.005 | .00000 | .03060 | .01150 | .00990 | .03060 | -.00160 | 6.09000 |
| .951 | 10.011 | .00000 | .03060 | .01150 | .00990 | .03060 | -.00160 | 12.13700 |
| .949 | 15.005 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | 18.08500 |
| .950 | 18.125 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | 21.74200 |
| .950 | 22.836 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | 27.15900 |
| | GRADIENT | .00000 | .00125 | -.00000 | .00000 | .00125 | .00000 | 1.21728 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1469

(02F090) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 AILRON = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO BDFLAP = .000 SPOBRK = 15.000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 676/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|---------|---------|--------|--------|---------|-----------|
| 1.198 | -14.970 | .01700 | .04080 | .01150 | .00990 | .02380 | -.00160 | -18.04400 |
| 1.198 | -10.771 | .01700 | .04080 | .01150 | .00990 | .02380 | -.00160 | -13.04900 |
| 1.200 | -4.947 | .01700 | .04080 | .01150 | .00990 | .02380 | -.00160 | -6.01910 |
| 1.201 | -2.442 | .01700 | .04080 | .01150 | .00990 | .02380 | -.00160 | -2.97460 |
| 1.199 | -1.132 | .01700 | .04080 | .00000 | .00990 | .02380 | .00990 | -1.16090 |
| 1.200 | 2.505 | .01700 | .04080 | .00000 | .00990 | .02380 | .00990 | 3.05070 |
| 1.200 | 4.996 | .01700 | .04080 | .00000 | .00990 | .02380 | .00990 | 6.07880 |
| 1.199 | 10.019 | .01700 | .04080 | .00000 | .00990 | .02380 | .00990 | 12.14700 |
| 1.200 | 15.022 | .01700 | .04080 | .00000 | .00990 | .02380 | .00990 | 18.10500 |
| 1.199 | 18.125 | .01700 | .04080 | .00000 | .00990 | .02380 | .00990 | 21.74200 |
| 1.200 | 22.846 | .01700 | .04080 | .00000 | .00990 | .02380 | .00990 | 27.17000 |
| | GRADIENT | .00000 | -.00000 | -.00138 | .00000 | .00000 | .00138 | 1.21704 |

RUN NO. 669/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|---------|--------|--------|---------|-----------|
| 1.403 | -14.976 | .00000 | .03060 | .03450 | .01980 | .03060 | -.01470 | -18.05000 |
| 1.402 | -10.727 | .00000 | .03060 | .03450 | .01980 | .03060 | -.01470 | -12.99500 |
| 1.401 | -4.924 | .00000 | .03060 | .03450 | .01980 | .03060 | -.01470 | -5.99180 |
| 1.403 | -2.451 | .00000 | .03060 | .01150 | .01980 | .03060 | .00830 | -2.98450 |
| 1.403 | -.41 | .00000 | .03060 | .01150 | .01980 | .03060 | .00830 | -1.7190 |
| 1.403 | 2.488 | .00000 | .03060 | .01150 | .01980 | .03060 | .00830 | 3.02970 |
| 1.403 | 5.014 | .00000 | .03060 | .01150 | .01980 | .03060 | .00830 | 6.10130 |
| 1.403 | 10.011 | .00000 | .03060 | .00000 | .01980 | .03060 | .01980 | 12.13700 |
| 1.404 | 15.005 | .00000 | .03060 | .00000 | .01980 | .03060 | .01980 | 18.08500 |
| 1.403 | 18.143 | .00000 | .03060 | .00000 | .01980 | .03060 | .01980 | 21.76200 |
| 1.403 | 22.836 | .00000 | .03060 | .01150 | .01980 | .03060 | .00830 | 27.15900 |
| | GRADIENT | .00000 | .00000 | -.00280 | .00000 | .00000 | .00280 | 1.21728 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1470

AMES 118-1-11 0A145A 01

(D2F091) (08 JUL 77)

REFERENCE DATA

| | | | | | | | | |
|---|-------|---|-----------|--------|------|---|-----------|--------|
| = | SREF | = | 2690.0000 | SO.FT. | XMRP | = | 1076.6800 | IN. X0 |
| = | LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. Y0 |
| = | BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. Z0 |
| = | SCALE | = | .0500 | | | | | |

PARAMETRIC DATA

| | | | | | |
|--------|---|--------|--------|---|--------|
| ALPHA | = | 10.000 | BETA | = | .000 |
| ELEVON | = | .000 | AILRON | = | .000 |
| BDFLAP | = | .000 | SPDBRK | = | 15.000 |
| RN/L | = | 5.000 | | | |

| RUN NO. | 701/ 0 | RN/L | GRADIENT | INTERVAL | = | -5.00/ | 5.00 | |
|----------|--------|---------|----------|----------|---------|---------|-----------|--|
| RUDDER | ELV-LO | ELV-L1 | ELV-RO | ELV-R1 | DELL | DELR | DRHL | |
| -14.993 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | -18.07000 | |
| -10.745 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | -13.01700 | |
| -4.939 | .00850 | .03060 | .00000 | .00990 | .02210 | -.00160 | -6.01000 | |
| -2.418 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | -2.94490 | |
| 2.141 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | -1.17190 | |
| 2.522 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | 3.07160 | |
| 5.024 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | 6.11260 | |
| 10.011 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | 12.13700 | |
| 15.014 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | 18.09500 | |
| 18.125 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | 21.74200 | |
| 22.836 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | 27.15900 | |
| GRADIENT | .00000 | -.00000 | .00140 | .00000 | -.00000 | -.00140 | 1.21726 | |

| RUN NO. | 695/ 0 | RN/L = | 4.93 | GRADIENT INTERVAL = | -5.00/ | 5.00 | |
|----------|--------|--------|--------|---------------------|--------|---------|-----------|
| RUDDER | ELV-L0 | ELV-L1 | ELV-R0 | ELV-R1 | DELL | DELR | DRHL |
| -14.960 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | -18.03200 |
| -10.754 | .01700 | .03060 | .00000 | .00990 | .01360 | .00990 | -13.02800 |
| -4.961 | .01700 | .03060 | .00000 | .00990 | .01360 | .00990 | -6.03730 |
| -2.434 | .01700 | .03060 | .00000 | .00990 | .01360 | .00990 | -2.96470 |
| -1.123 | .01700 | .03060 | .00000 | .00990 | .01360 | .00990 | -1.15000 |
| 2.513 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | 3.06120 |
| 5.014 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | 6.10130 |
| 10.067 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | 12.20400 |
| 14.996 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | 18.07400 |
| 18.116 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | 21.73100 |
| 22.827 | .02550 | .03060 | .01150 | .00990 | .00510 | -.00160 | 27.14900 |
| GRADIENT | .00000 | .00000 | .03141 | .00000 | .00000 | -.00141 | 1.21727 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(DEF091) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ. FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

ALPHA = 10.000 BETA = .000
ELEVON = .000 AILRON = .000
BOFLAP = .000 SPDBRK = 15.000
RN/L = 5.000

PARAMETRIC DATA

RUN NO. 687/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|--------|--------|--------|--------|--------|---------|-----------|
| .901 | -14.965 | .02550 | .03060 | .01150 | .00990 | .00510 | -.00160 | -18.03800 |
| .900 | -10.754 | .02550 | .03060 | .01150 | .00990 | .00510 | -.00160 | -13.02800 |
| .899 | -4.961 | .02550 | .03060 | .01150 | .00990 | .00510 | -.00160 | -6.03730 |
| .901 | -2.434 | .02550 | .03060 | .01150 | .00990 | .00510 | -.00160 | -2.96470 |
| .899 | -.089 | .02550 | .03060 | .01150 | .00990 | .00510 | -.00160 | -.10890 |
| .899 | 2.522 | .02550 | .03060 | .01150 | .00990 | .00510 | -.00160 | 3.07160 |
| .900 | 4.996 | .02550 | .03060 | .01150 | .00990 | .00510 | -.00160 | 6.07880 |
| .900 | 10.003 | .02550 | .03060 | .01150 | .00990 | .00510 | -.00160 | 12.12800 |
| .900 | 15.005 | .02550 | .03060 | .01150 | .00990 | .00510 | -.00160 | 18.08500 |
| .900 | 18.134 | .02550 | .03060 | .01150 | .00990 | .00510 | -.00160 | 21.75200 |
| .900 | 22.808 | .02550 | .03060 | .01150 | .00990 | .00510 | -.00160 | 27.12700 |
| GRADIENT | | .00000 | .00000 | .00000 | .00000 | .00000 | -.00000 | 1.21703 |

RUN NO. 686/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|--------|--------|--------|--------|--------|---------|-----------|
| .948 | -14.976 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | -18.05000 |
| .951 | -10.754 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | -13.02800 |
| .953 | -4.961 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | -6.03730 |
| .953 | -2.434 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | -2.96470 |
| .949 | -.123 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | -.15000 |
| .951 | 2.505 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | 3.05070 |
| .951 | 5.024 | .02550 | .03060 | .01150 | .00990 | .00510 | -.00160 | 6.11260 |
| .950 | 10.011 | .02550 | .03060 | .01150 | .00990 | .01360 | -.00160 | 12.13700 |
| .951 | 15.022 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | 18.10500 |
| .950 | 18.116 | .02550 | .03060 | .00000 | .00990 | .00510 | .00990 | 21.73100 |
| .952 | 22.827 | .01700 | .03060 | .00000 | .00990 | .01360 | .00990 | 27.14900 |
| GRADIENT | | .00000 | .00000 | .00000 | .00000 | .00000 | -.00000 | 1.21727 |

0A145 TABULATED FORCE DATA

(02F091) (08 JUL 77)

DATE 10 MAR 80

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 10.000 BETA = .000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 AILRON = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO BDFLAP = .000 SPDBRK = 15.000
SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

| RUN NO. 574/ 0 | | RN/L = 4.97 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|---------|-------------|--------|---------------------------------|--------|
| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI |
| 1.199 | -14.960 | .00850 | .04080 | .01150 | .00990 |
| 1.199 | -10.727 | .00850 | .04080 | .00000 | .00990 |
| 1.200 | -4.947 | .00850 | .04080 | .01150 | .00990 |
| 1.201 | -2.459 | .00850 | .04080 | .00000 | .00990 |
| 1.201 | -1.110 | .00850 | .04080 | .01150 | .00990 |
| 1.199 | 2.488 | .00850 | .04080 | .00000 | .00990 |
| 1.199 | 5.024 | .00850 | .04080 | .03230 | .00990 |
| 1.199 | 10.011 | .00850 | .04080 | .00000 | .00990 |
| 1.199 | 15.005 | .00850 | .04080 | .03230 | .00990 |
| 1.199 | 18.116 | .00850 | .04080 | .00000 | .00990 |
| 1.199 | 22.818 | .00850 | .04080 | .01150 | .00990 |
| GRADIENT | | .00000 | .00000 | .00096 | .00000 |

| RUN NO. 671/ 0 | | RN/L = 4.91 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|---------|-------------|--------|---------------------------------|--------|
| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI |
| 1.395 | -14.965 | .00000 | .03060 | .00000 | .00990 |
| 1.396 | -10.736 | .00000 | .03060 | .01150 | .00990 |
| 1.398 | -4.932 | .00000 | .03060 | .00000 | .00990 |
| 1.399 | -2.434 | .00000 | .03060 | .01150 | .00990 |
| 1.400 | -1.123 | .00000 | .03060 | .00000 | .00990 |
| 1.401 | 2.496 | .00000 | .03060 | .01150 | .00990 |
| 1.401 | 5.005 | .00000 | .03060 | .00000 | .00990 |
| 1.401 | 10.035 | .00000 | .03060 | .01150 | .00990 |
| 1.402 | 14.986 | .00000 | .03060 | .00000 | .00990 |
| 1.402 | 18.125 | .00000 | .03060 | .03060 | .00990 |
| 1.403 | 22.808 | .00000 | .00000 | .00000 | .00990 |
| GRADIENT | | .00000 | .00000 | .00140 | .00000 |

DELX
-18.03200
-12.99500
-6.01910
-2.99440
-1.13360
3.02970
6.11260
12.13700
18.08500
21.73100
27.13800
1.21727

DELX
-18.03800
-13.00600
-6.00090
-2.96470
-1.15000
3.04020
6.09000
12.16600
18.07400
21.74200
27.12700
1.21728

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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ANES 118-1-11 OAI45A 01

(D2F092) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 15.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = 15.000
 RN/L = 5.000

| RUN NO. 675/ 0 | | RN/L = 4.97 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|--------|---------------------------------|-----------|
| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI |
| 1.199 | -14.976 | .00000 | .04080 | .00000 | .00990 |
| 1.198 | -10.736 | .00000 | .04080 | .00000 | .00990 |
| 1.200 | -4.954 | .00000 | .04080 | .01150 | .00990 |
| 1.200 | -2.451 | .00000 | .04080 | .00000 | .00990 |
| 1.201 | 2.132 | .00000 | .04080 | .00000 | .00990 |
| 1.200 | 2.505 | .00000 | .04080 | .00000 | .00990 |
| 1.200 | 4.996 | .00000 | .04080 | .00000 | .00990 |
| 1.200 | 10.019 | .00000 | .04080 | .00000 | .00990 |
| 1.199 | 15.022 | .00000 | .04080 | .00000 | .00990 |
| 1.200 | 18.116 | .00000 | .04080 | .00000 | .00990 |
| 1.200 | 22.818 | .00000 | .04080 | .00000 | .00990 |
| 1.200 | GRADIENT | .00000 | .00000 | -.00092 | .00000 |
| | | | | | DRHL |
| | | | | | -18.05000 |
| | | | | | -13.00600 |
| | | | | | -6.02820 |
| | | | | | -2.98450 |
| | | | | | -.16090 |
| | | | | | 3.05070 |
| | | | | | 6.07880 |
| | | | | | 12.14700 |
| | | | | | 18.10500 |
| | | | | | 21.73100 |
| | | | | | 27.13800 |
| | | | | | 1.21704 |

| RUN NO. 672/ 0 | | RN/L = 4.90 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|--------|---------------------------------|-----------|
| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI |
| 1.392 | -14.993 | -.02020 | .03060 | .01150 | .00990 |
| 1.394 | -10.745 | .01700 | .03060 | .01150 | .00990 |
| 1.393 | -4.954 | .01700 | .03060 | .00000 | .00990 |
| 1.393 | -2.426 | .01700 | .03060 | .00000 | .00990 |
| 1.393 | 2.513 | .01700 | .03060 | .00000 | .00990 |
| 1.394 | 2.514 | .01700 | .03060 | .00000 | .00990 |
| 1.393 | 5.014 | .01700 | .03060 | .00000 | .00990 |
| 1.393 | 10.003 | .01700 | .03060 | .00000 | .00990 |
| 1.393 | 14.996 | .01700 | .03060 | .00000 | .00990 |
| 1.393 | 18.107 | .01700 | .03060 | .00000 | .00990 |
| 1.393 | 22.836 | .01700 | .03060 | .00000 | .00990 |
| 1.393 | GRADIENT | .00000 | .00000 | .00000 | .00000 |
| | | | | | DRHL |
| | | | | | -18.07000 |
| | | | | | -13.01700 |
| | | | | | -6.02820 |
| | | | | | -2.95480 |
| | | | | | -.04320 |
| | | | | | 3.06120 |
| | | | | | 6.10130 |
| | | | | | 12.12800 |
| | | | | | 18.07400 |
| | | | | | 21.72100 |
| | | | | | 27.15900 |
| | | | | | 1.21728 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

AMES 118-1-11 0A145A 01

(02F093) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 15.000 RUDDER = -5.000
 RN/L = 5.000

RUN NO. 704/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|--------|--------|---------|---------|--------|---------|----------|
| .597 | -6.045 | .00850 | .03060 | .01150 | .01980 | .02210 | .00830 | -6.00090 |
| .597 | -1.935 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -6.05550 |
| .597 | -.839 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -6.05550 |
| .598 | .029 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -6.01000 |
| .597 | .551 | .00850 | .03060 | .01150 | .01980 | .02210 | .00830 | -6.01000 |
| .597 | 1.038 | .00850 | .03060 | .01150 | .01980 | .02210 | .00830 | -6.01000 |
| .597 | 2.105 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -6.01000 |
| .598 | 3.141 | .00850 | .03060 | .01150 | .01980 | .02210 | .00830 | -6.01000 |
| .598 | 4.169 | .00850 | .03060 | .01150 | .01980 | .02210 | .00830 | -6.01000 |
| .598 | 6.225 | .00850 | .03060 | .01150 | .01980 | .02210 | .00830 | -6.01000 |
| GRADIENT | | .00000 | .00000 | -.00000 | -.00163 | .00000 | -.00163 | .00761 |

RUN NO. 697/ 0 RN/L = 4.92 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|--------|--------|--------|--------|--------|---------|----------|
| .799 | -6.086 | .00850 | .03060 | .01150 | .00990 | .02210 | .00160 | -6.00090 |
| .797 | -1.945 | .00850 | .03060 | .01150 | .00990 | .02210 | .00160 | -6.01000 |
| .799 | -.908 | .00850 | .03060 | .01150 | .00990 | .02210 | .00160 | -6.01910 |
| .800 | .165 | .00850 | .03060 | .01150 | .00990 | .02210 | .00160 | -6.01910 |
| .798 | .657 | .00850 | .03060 | .01150 | .00990 | .02210 | .00160 | -6.01910 |
| .798 | 1.178 | .00850 | .03060 | .01150 | .00990 | .02210 | .00160 | -6.01910 |
| .797 | 2.219 | .00850 | .03060 | .01150 | .00990 | .02210 | .00160 | -6.02820 |
| .797 | 3.261 | .00850 | .03060 | .01150 | .00990 | .02210 | .00160 | -6.03730 |
| .797 | 4.699 | .00850 | .03060 | .01150 | .00990 | .02210 | .00160 | -6.03730 |
| .796 | 6.367 | .00850 | .03060 | .00000 | .00000 | .00000 | -.00200 | -.00343 |
| GRADIENT | | .00000 | .00000 | .00000 | .00000 | .00000 | -.00200 | |

RUN NO. 691/ 0 RN/L = 4.87 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|--------|--------|--------|--------|--------|---------|----------|
| .900 | -6.130 | .01700 | .03060 | .01150 | .00990 | .01360 | .00160 | -6.01910 |
| .900 | -1.964 | .00850 | .03060 | .01150 | .00990 | .02210 | .00160 | -6.02820 |
| .899 | -.916 | .00850 | .03060 | .01150 | .00990 | .02210 | .00160 | -6.02820 |
| .899 | .133 | .00850 | .03060 | .01150 | .00990 | .02210 | .00160 | -6.03730 |
| .900 | .645 | .00850 | .03060 | .01150 | .00990 | .02210 | .00160 | -6.03730 |
| .900 | 1.174 | .00850 | .03060 | .01150 | .00990 | .02210 | .00160 | -6.02820 |
| .900 | 2.211 | .00850 | .03060 | .01150 | .00990 | .02210 | .00160 | -6.02820 |
| .898 | 3.257 | .00850 | .03060 | .01150 | .00990 | .02210 | .00160 | -6.03730 |
| .898 | 4.295 | .00850 | .03060 | .01150 | .00990 | .02210 | .00160 | -6.03730 |
| .896 | 6.366 | .00850 | .03060 | .01150 | .00990 | .02210 | .00160 | -6.04640 |
| GRADIENT | | .00000 | .00000 | .00000 | .00000 | .00000 | -.00000 | -.00116 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

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(02F093) (08 JUL 77)

REFERENCE DATA

| | | | | | | | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|--------|--------|---|--------|--------|---|--------|
| SREF | = | 2690.0000 | SG.FT. | XMRP | = | 1076.6800 | IN. XO | ALPHA | = | 5.000 | ELEVON | = | .000 |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. YO | AIRON | = | .000 | BDFLAP | = | .000 |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. ZO | SPDBRK | = | 15.000 | RUDDER | = | -5.000 |
| SCALE | = | .0500 | | | | | | RN/L | = | 5.000 | | | |

PARAMETRIC DATA

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|--------|--------|--------|---------|---------|----------|
| .951 | -6.103 | .0340 | .0360 | .01150 | .01980 | -.00340 | .00830 | -6.01000 |
| .952 | -1.946 | .04250 | .02040 | .01150 | .00990 | -.02210 | -.00150 | -6.01910 |
| .951 | -.915 | .00850 | .02040 | .01150 | .00990 | .01190 | -.00160 | -6.01910 |
| .951 | .036 | .00850 | .02040 | .01150 | .00990 | .01190 | -.00160 | -6.01910 |
| .951 | .589 | .00850 | .02040 | .01150 | .00990 | .01190 | -.00160 | -6.01910 |
| .950 | 1.077 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | -6.01910 |
| .949 | 2.149 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | -6.02820 |
| .951 | 3.190 | .00850 | .02040 | .01150 | .00990 | .01190 | -.00160 | -6.02820 |
| .948 | 4.231 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | -6.02820 |
| .947 | 6.312 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | -6.02820 |
| GRADIENT | | -.00340 | .00146 | .00000 | .00000 | .00486 | -.00000 | -.00195 |

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|--------|--------|--------|--------|---------|---------|----------|
| 1.199 | -6.106 | .03400 | .04080 | .01150 | .00990 | .00680 | -.00160 | -6.01910 |
| 1.200 | -1.954 | .05100 | .04080 | .00000 | .00990 | -.01020 | .00990 | -6.02820 |
| 1.198 | -.924 | .00000 | .04080 | .00000 | .00990 | .04080 | .00990 | -6.02820 |
| 1.199 | .053 | .00850 | .04080 | .00000 | .00990 | .03230 | .00990 | -6.02820 |
| 1.199 | .675 | .00850 | .04080 | .00000 | .00990 | .03230 | .00990 | -6.02820 |
| 1.199 | 1.179 | .01700 | .04080 | .00000 | .00990 | .02380 | .00990 | -6.02820 |
| 1.200 | 2.215 | .01700 | .04080 | .00000 | .00990 | .02380 | .00990 | -6.02820 |
| 1.198 | 3.258 | .03400 | .04080 | .00000 | .00990 | .00680 | .00990 | -6.02820 |
| 1.199 | 4.296 | .05100 | .04080 | .00000 | .00990 | -.01020 | .00990 | -6.03730 |
| 1.197 | 6.364 | .01700 | .04080 | .00000 | .00990 | .02380 | .00990 | -6.03730 |
| GRADIENT | | .00287 | .00000 | .00000 | .00000 | -.00287 | .00000 | -.00094 |

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|--------|--------|--------|---------|---------|---------|----------|
| 1.403 | -6.117 | .0000 | .0306 | .0000 | .0297 | .0306 | .0297 | -6.02820 |
| 1.406 | -1.968 | .0000 | .0306 | .0000 | .0792 | .0306 | .0792 | -6.02820 |
| 1.402 | -.908 | .0000 | .0306 | .0000 | .0693 | .0306 | .0693 | -6.01910 |
| 1.403 | 1.152 | .0000 | .0306 | .0000 | .0594 | .0306 | .0594 | -6.01910 |
| 1.403 | .633 | .0000 | .0306 | .0000 | .0297 | .0306 | .0297 | -6.01910 |
| 1.403 | 1.169 | .0000 | .0306 | .0000 | .0297 | .0306 | .0297 | -6.01000 |
| 1.402 | 2.225 | .0000 | .0306 | .0000 | .0297 | .0210 | .0297 | -6.01000 |
| 1.402 | 3.275 | .01700 | .0306 | .0000 | .0297 | .01360 | .0297 | -6.01000 |
| 1.403 | 4.324 | .01700 | .0306 | .0000 | .0297 | .01360 | .0297 | -6.00090 |
| 1.400 | 6.409 | .02550 | .0306 | .0000 | .01980 | .00510 | .01980 | -5.99180 |
| GRADIENT | | .00326 | .00000 | .00000 | -.00843 | -.00326 | -.00843 | -.00377 |

(D2F094) (08 JUL 77)

AMES 118-1-11 0A145: 01

REFERENCE DATA

SREF
LREF
BREF
SCALE

| | | | | |
|------|---|-----------|-----|----|
| XMRP | = | 1076.6800 | IN. | X0 |
| YMRP | = | .0000 | IN. | Y0 |
| ZMRP | = | 375.0000 | IN. | Z0 |

| | | |
|--------|-------------|---------------------------------|
| 731/ 0 | RN/L = 4.97 | GRADIENT INTERVAL = -5.00/ 5.00 |
|--------|-------------|---------------------------------|

MACH
.597
.599
.598
.596
.596
.597
.597

| LV-RO | ELV-RI | DELL | DECL | DAHL |
|-------|--------|---------|---------|---------|
| 01150 | .00000 | .00170 | -.01150 | -.13360 |
| 01150 | .00000 | .01020 | -.01150 | -.13360 |
| 01150 | .00000 | .01020 | -.01150 | -.13360 |
| 01150 | .00000 | -.01530 | -.01150 | -.14180 |
| 01150 | .00000 | -.01530 | -.01150 | -.14180 |
| 01150 | .00000 | -.01530 | -.01150 | -.15000 |
| 01150 | .00000 | -.00680 | -.01150 | -.15000 |
| 01150 | .00000 | .01020 | -.01150 | -.14180 |
| 01150 | .00000 | -.01530 | -.02300 | -.10070 |
| 02300 | .00000 | .00121 | .00000 | .00000 |

| | | | | | | |
|----------|--------|--------|------|---------------------|--------|------|
| PARAM NO | 726/ 0 | RN/L = | 4.99 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|----------|--------|--------|------|---------------------|--------|------|

MACH
 .739
 .799
 .799
 .796
 .796
 .797
 .801
 .796
 .797

| LV-RO | ELV-RI | DELL | DELR | ORHL |
|-------|--------|--------|--------|---------|
| 02300 | .02970 | .01020 | .00670 | -.14180 |
| 02300 | .02970 | .01020 | .00670 | -.14180 |
| 02300 | .02970 | .01020 | .00670 | -.11710 |
| 02300 | .02970 | .01020 | .00670 | -.10890 |
| 02300 | .02970 | .01020 | .01820 | -.10890 |
| 01150 | .02970 | .01020 | .02970 | -.12540 |
| 00000 | .02970 | .01020 | .00480 | -.11710 |
| 03450 | .02970 | .01020 | .00670 | -.09250 |
| 02300 | .02970 | .01020 | .00670 | -.10890 |
| 02300 | .02970 | .01020 | .00670 | -.02883 |
| 00000 | .00000 | .00000 | .00000 | |

| | DEL | DRH |
|----|---------|---------|
| 00 | .00670 | -.14180 |
| 00 | .00670 | -.14180 |
| 00 | .00670 | -.11710 |
| 00 | .00670 | -.10890 |
| 00 | .01820 | -.10890 |
| 00 | .02970 | -.12540 |
| 00 | -.00480 | -.11710 |
| 00 | .00670 | -.09250 |
| 00 | .00670 | -.10890 |
| 00 | .00000 | -.00283 |

| | | | | | | |
|---------|--------|------|------|-------------------|--------|------|
| PUMP NO | 725/ 0 | BN/L | 5.00 | GRADIENT INTERVAL | -5.00/ | 5.00 |
|---------|--------|------|------|-------------------|--------|------|

MACH
 .900
 .909
 .900
 .899
 .900
 .900
 .899
 .899
 .897

| ELV-RO | ELV-RI | DELL | DELR | DRHL |
|--------|--------|--------|--------|---------|
| .02300 | .02970 | .01020 | .00670 | -.10890 |
| .02300 | .02970 | .01020 | .00670 | -.07610 |
| .02300 | .02970 | .01020 | .00670 | -.13360 |
| .02300 | .02970 | .01020 | .00670 | -.10070 |
| .02300 | .02970 | .01020 | .00670 | -.15000 |
| .02300 | .02970 | .01020 | .01820 | -.13360 |
| .01150 | .02970 | .01020 | .01820 | -.10890 |
| .02300 | .02970 | .01020 | .00670 | -.11710 |
| .02300 | .02970 | .01020 | .00670 | -.11710 |
| .00000 | .00000 | .00000 | .00000 | -.00204 |

| | DEL | DRH |
|----|--------|---------|
| 20 | .00670 | -.10890 |
| 20 | .00670 | -.07610 |
| 20 | .00670 | -.13360 |
| 20 | .00670 | -.10070 |
| 20 | .00670 | -.15000 |
| 20 | .01820 | -.13360 |
| 20 | .01820 | -.10890 |
| 20 | .00670 | -.11710 |
| 20 | .00670 | -.11710 |
| 00 | .00000 | -.00204 |

DATE 10 MAR 80

OAI145 TABULATED FORCE DATA

PAGE 1477

AMES 118-1-11 OAI45A 01

(02F094) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDGRK = 40.000 RUDDER = .000
 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 717/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|--------|---------|--------|--------|---------|---------|
| .950 | -5.032 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.11710 |
| .951 | -.005 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.11710 |
| .949 | 2.541 | .00850 | .02040 | .01150 | .02970 | .01190 | .01820 | -.10890 |
| .950 | 4.989 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | -.12540 |
| .949 | 7.041 | .00850 | .02040 | .01150 | .02970 | .01190 | .01820 | -.09250 |
| .950 | 8.063 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.09250 |
| .949 | 10.100 | .00850 | .02040 | .01150 | .02970 | .01190 | .01820 | -.11710 |
| .950 | 12.164 | .00850 | .02040 | .01150 | .02970 | .01190 | .01820 | -.12540 |
| .950 | 15.239 | .00850 | .01020 | .00000 | .02970 | .00170 | .02970 | -.05140 |
| | GRADIENT | -.00169 | .00206 | -.00000 | .00000 | .00375 | -.00000 | -.00163 |

RUN NO. 713/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|--------|--------|--------|---------|
| 1.200 | -5.010 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.12540 |
| 1.203 | .004 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.11710 |
| 1.200 | 2.559 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.11710 |
| 1.198 | 5.094 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.10890 |
| 1.196 | 7.158 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.10890 |
| 1.198 | 8.193 | .00000 | .01020 | .00000 | .02970 | .01020 | .02970 | -.10890 |
| 1.198 | 10.175 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.12540 |
| 1.201 | 12.208 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | -.13360 |
| 1.199 | 15.261 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.14180 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 |

RUN NO. 710/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|--------|---------|---------|--------|---------|---------|---------|---------|
| 1.399 | -4.975 | .02550 | .03060 | .01150 | .03960 | .00510 | .02810 | -.14180 |
| 1.405 | .032 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.11710 |
| 1.403 | 2.589 | .02550 | .02040 | .01150 | .02970 | -.00510 | .01820 | -.11710 |
| 1.400 | 5.161 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.10890 |
| 1.400 | 7.198 | .00000 | .02040 | .00000 | .02970 | .02040 | .02970 | -.12540 |
| 1.399 | 8.188 | .01700 | .02040 | .00000 | .02970 | .00340 | .02970 | -.12540 |
| 1.399 | 10.072 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.13360 |
| 1.399 | 12.114 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | -.13360 |
| 1.399 | 15.070 | .00850 | .02040 | .01150 | .02970 | .01190 | .01820 | -.12540 |
| 1.397 | | -.00023 | -.00144 | .00000 | -.00140 | -.00121 | -.00140 | .00350 |

DATE 10 MAR 80

DA145 TABULATED FORCE DATA

AMES 118-1-11 0A145A 01

(D2F095) (08 JUL 77)

REFERENCE DATA

| | | | |
|-------|---|-----------|--------|
| SREF | = | 2690.0000 | SO.FT. |
| LREF | = | 474.8100 | INCHES |
| BREF | = | 936.6800 | INCHES |
| SCALE | = | .0500 | |

| | | | | |
|------|---|-----------|-----|----|
| XMRP | = | 1076.6800 | IN. | X0 |
| YMRP | = | .0000 | IN. | Y0 |
| ZMRP | = | 375.0000 | IN. | Z0 |

| | | | | | |
|---------|---|--------|--------|---|------|
| ALPHA | = | 5.000 | ELEVON | = | .000 |
| ATLIRON | = | .000 | BDFLAP | = | .000 |
| SPDBRK | = | 40.000 | RUDDER | = | .000 |
| RN/L | = | 5.000 | | | |

PARAMETRIC DATA

| RUN NO. | 728/ 0 | RN/L = | GRADIENT INTERVAL = | -5.00/ | 5.00 | | |
|---------|--------|--------|---------------------|---------|---------|---------|---------|
| BETA | ELV-LO | ELV-LI | ELV-RO | ELV-Rl | DELL | DEL R | DRHL |
| -6.054 | .02550 | .01020 | .02300 | .03960 | -.01530 | .01660 | -.16090 |
| -1.926 | .02550 | .01020 | .02300 | .03960 | -.01530 | .01660 | -.22650 |
| -.881 | .02550 | .01020 | .02300 | .13860 | -.01530 | .11560 | -.23740 |
| .028 | .02550 | .01020 | .02300 | .11880 | -.01530 | .09580 | -.24840 |
| .642 | .02550 | .01020 | .02300 | .02970 | -.01530 | .00670 | -.10890 |
| 1.144 | .01700 | .01020 | .02300 | .01980 | -.00680 | -.00320 | -.10070 |
| 2.190 | .01700 | .01020 | .02300 | .01980 | -.00680 | -.00320 | -.13360 |
| 3.221 | .01700 | .01020 | .02300 | .01980 | -.00680 | -.00320 | -.14180 |
| 4.258 | .01700 | .01020 | .02300 | .01980 | -.00680 | -.00320 | -.15000 |
| 6.319 | .01700 | .01020 | .02300 | .01980 | -.00680 | -.00320 | -.17190 |
| | .00000 | .00000 | .00000 | -.01336 | -.00183 | -.01336 | -.01749 |

| RUN NO. | 727/ 0 | RN/L | 4.99 | GRADIENT | INTERVAL | -5.00/ | 5.00 | DEL | DEL | DEL | DEL |
|----------|--------|--------|--------|----------|----------|--------|------|-----|-----|-----|-----|
| BETA | | | | | | | | | | | |
| -6.098 | .0000 | .01020 | .02970 | .0670 | .10890 | | | | | | |
| -1.955 | .0000 | .01020 | .02970 | .0670 | .23740 | | | | | | |
| -.913 | .0000 | .01020 | .02970 | .0670 | .13360 | | | | | | |
| .094 | .0000 | .01020 | .02970 | .0670 | .12540 | | | | | | |
| .663 | .0000 | .01020 | .02970 | .0670 | .11710 | | | | | | |
| 1.158 | .0000 | .01020 | .02970 | .0670 | .11710 | | | | | | |
| 2.203 | .0000 | .01020 | .02970 | .0670 | .14180 | | | | | | |
| 3.249 | .0000 | .01020 | .02970 | .0670 | .15000 | | | | | | |
| 4.288 | .0000 | .01020 | .02970 | .0670 | .17190 | | | | | | |
| 6.355 | .0000 | .01020 | .02970 | .0670 | .22650 | | | | | | |
| GRADIENT | .0000 | .0000 | .0000 | .0000 | .00445 | | | | | | |

| MACH | BETA | ELV-LO | ELV-L1 | ELV-RO | ELV-R1 | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|--------|---------|---------|
| .902 | -6.094 | .0000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.10070 |
| .902 | -1.582 | .0000 | .01020 | .02300 | .03960 | .01020 | .01660 | -.19370 |
| .898 | -.905 | .0000 | .01020 | .02300 | .03960 | .01020 | .01660 | -.23740 |
| .901 | .105 | .0000 | .01020 | .01150 | .03960 | .01020 | .02810 | -.15000 |
| .896 | .656 | .0000 | .01020 | .02300 | .02970 | .01020 | .00670 | -.15000 |
| .900 | 1.156 | .0000 | .01020 | .02300 | .03960 | .01020 | .01660 | -.15000 |
| .902 | 2.223 | .0000 | .01020 | .02300 | .03960 | .01020 | .01660 | -.14180 |
| .899 | 3.266 | .0000 | .01020 | .02300 | .03960 | .01020 | .01660 | -.15000 |
| .900 | 4.304 | .0000 | .01020 | .02300 | .03960 | .01020 | .01660 | -.18280 |
| .900 | 6.376 | .0000 | .01020 | .02300 | .02970 | .01020 | .00670 | -.15000 |
| .896 | GRADIENT | .00000 | .00000 | .00037 | .00014 | .00000 | -.00023 | .00695 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1479

AMES 118-1-11 OAI45A 01

(02F095) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDGRK = 40.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 718/ 0 RN/L = 5.07 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|---------|--------|--------|---------|--------|---------|
| .952 | -6.113 | .00850 | .02040 | .01150 | .02970 | .01190 | .01820 | -.12540 |
| .952 | -1.975 | .00850 | .02040 | .01150 | .02970 | .01190 | .01820 | -.20460 |
| .951 | -.927 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.13360 |
| .951 | .148 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.14180 |
| .950 | .636 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.15000 |
| .950 | 1.158 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.15000 |
| .948 | 2.217 | .02550 | .02040 | .01150 | .02970 | -.00510 | .01820 | -.14180 |
| .950 | 3.268 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -.16090 |
| .951 | 4.310 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -.12540 |
| .948 | 6.380 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -.12540 |
| | GRADIENT | .00263 | -.00179 | .00000 | .00000 | -.00441 | .00000 | .00619 |

RUN NO. 714/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|--------|---------|--------|---------|
| 1.203 | -6.126 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.05140 |
| 1.199 | -1.958 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | -.12540 |
| 1.201 | -.912 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | -.13360 |
| 1.199 | .136 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | -.15000 |
| 1.201 | .614 | .00850 | .02040 | .01150 | .02970 | .01190 | .01820 | -.15000 |
| 1.200 | 1.134 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.15000 |
| 1.201 | 2.193 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.15000 |
| 1.200 | 3.244 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | -.13360 |
| 1.198 | 4.289 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | -.15000 |
| 1.199 | 6.358 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | -.18280 |
| | GRADIENT | .00050 | .00000 | .00000 | .00000 | -.00050 | .00000 | -.00238 |

RUN NO. 708/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|--------|--------|--------|---------|--------|---------|
| 1.407 | -6.245 | .02550 | .02040 | .01150 | .02970 | -.00510 | .01820 | -.15000 |
| 1.407 | -2.078 | .04250 | .02040 | .01150 | .02970 | -.02210 | .01820 | -.11710 |
| 1.406 | -1.028 | .05100 | .02040 | .01150 | .02970 | -.03060 | .01820 | -.15000 |
| 1.406 | .055 | .00850 | .02040 | .01150 | .02970 | .01190 | .01820 | -.15000 |
| 1.406 | .571 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.15000 |
| 1.406 | 1.101 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.15000 |
| 1.406 | 2.148 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.15000 |
| 1.405 | 3.199 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.16090 |
| 1.404 | 4.245 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.17190 |
| 1.402 | 6.358 | .03400 | .02040 | .01150 | .02970 | -.01360 | .01820 | -.21560 |
| | GRADIENT | -.00449 | .00000 | .00000 | .00000 | .00449 | .00000 | -.00626 |

OAI45 TABULATED FORCE DATA

(02F096) (08 JUL 77)

DATE 10 MAR 80

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 AILRON = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO RND/L = .000 SPDBRK = 40.000
SCALE = .0500

PARAMETRIC DATA

RUN NO. 730/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|---------|---------|-----------|
| .596 | -14.976 | .00850 | .01020 | .02300 | .00990 | .00170 | -.01310 | -18.05000 |
| .597 | -10.727 | .00850 | .01020 | .02300 | .00000 | .00170 | -.02300 | -12.99500 |
| .597 | -4.932 | .00850 | .01020 | .01150 | .00000 | .00170 | -.01150 | -6.00090 |
| .597 | -2.426 | .00850 | .01020 | .01150 | .00000 | .00170 | -.01150 | -2.95480 |
| .597 | -.089 | .00850 | .01020 | .01150 | .00000 | .00170 | -.01150 | -1.0890 |
| .597 | 2.505 | .00850 | .01020 | .01150 | .00000 | .00170 | -.01150 | 3.05070 |
| .597 | 4.996 | .00850 | .01020 | .01150 | .00000 | .00170 | -.01150 | 6.07880 |
| .598 | 10.027 | .00850 | .01020 | .01150 | .00000 | .00170 | -.01150 | 12.15600 |
| .597 | 14.970 | .00850 | .01020 | .04600 | .00000 | .00170 | -.04600 | 18.04300 |
| .597 | 18.134 | .00850 | .01020 | .01150 | .00000 | .00170 | -.01150 | 21.75200 |
| .597 | 22.827 | .00850 | .01020 | .02300 | .00000 | .00170 | -.02300 | 27.14900 |
| .597 | GRADIENT | .00000 | .00000 | .00000 | .00000 | -.00000 | -.00000 | 1.21705 |

RUN NO. 721/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|---------|--------|---------|--------|-----------|
| .900 | -14.976 | .03400 | .01020 | .02300 | .03960 | -.02380 | .01660 | -18.05000 |
| .901 | -10.754 | .03400 | .01020 | .02300 | .03960 | -.02380 | .01660 | -13.02800 |
| .902 | -4.947 | .03400 | .01020 | .02300 | .03960 | -.02380 | .01660 | -6.01910 |
| .900 | -2.426 | .04250 | .01020 | .02300 | .03960 | -.03230 | .01660 | -2.95480 |
| .902 | -.123 | .04250 | .01020 | .01150 | .03960 | -.03230 | .02810 | -1.5000 |
| .901 | 2.531 | .04250 | .01020 | .02300 | .03960 | -.03230 | .01660 | 3.08210 |
| .899 | 10.027 | .03400 | .01020 | .02300 | .03960 | -.02380 | .01660 | 12.15600 |
| .902 | 15.022 | .03400 | .01020 | .01150 | .03960 | -.02380 | .02810 | 18.10500 |
| .901 | 18.116 | .03400 | .01020 | .01150 | .03960 | -.02380 | .02810 | 21.73100 |
| .900 | 22.827 | .00000 | .01020 | .01150 | .03960 | .01020 | .02810 | 27.14900 |
| .900 | GRADIENT | .00103 | .00000 | -.00042 | .00000 | -.00103 | .00042 | 1.21726 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1481

AMES 118-1-11 OAI45A 01

(DEF088) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELEVON = .000 AILRON = .000
BDFLAP = .000 SPDRK = 40.000
RN/L = 5.000

RUN NO. 720/ 0 RN/L = 5.07 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|---------|---------|---------|--------|---------|--------|-----------|
| .952 | -14.993 | .02550 | .02040 | .01150 | .03960 | -.00510 | .02810 | -18.07000 |
| .951 | -10.745 | .02550 | .01020 | .01150 | .03960 | -.01530 | .02810 | -13.01700 |
| .951 | -4.924 | .02550 | .01020 | .01150 | .03960 | -.01530 | .02810 | -5.99180 |
| .950 | -2.426 | .02550 | .02040 | .01150 | .03960 | -.00510 | .02810 | -2.95480 |
| .952 | -.103 | .02550 | .02040 | .01150 | .03960 | -.00510 | .02810 | -.12540 |
| .950 | 2.513 | .02550 | .01020 | .01150 | .03960 | -.01530 | .02810 | 3.06120 |
| .951 | 3.308 | .02550 | .01020 | .01150 | .03960 | -.01530 | .02810 | 4.02820 |
| .951 | 5.033 | .02550 | .02040 | .01150 | .03960 | -.00510 | .02810 | 6.12390 |
| .951 | 10.019 | .02550 | .02040 | .01150 | .03960 | -.00510 | .02810 | 12.14700 |
| .951 | 15.022 | .02550 | .02040 | .01150 | .03960 | -.00510 | .02810 | 18.10500 |
| .951 | 18.134 | .02550 | .02040 | .02300 | .03960 | -.00510 | .01660 | 21.75200 |
| .950 | 22.827 | .02550 | .02040 | .02300 | .03960 | -.00510 | .01660 | 27.14900 |
| GRADIENT | -.00000 | -.00000 | -.00041 | -.00000 | .00000 | -.00041 | .00000 | 1.21734 |

RUN NO. 712/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|--------|--------|--------|--------|--------|---------|-----------|
| 1.200 | -14.965 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -18.03800 |
| 1.202 | -10.754 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | -13.02800 |
| 1.201 | -4.947 | .00000 | .01020 | .00000 | .02970 | .01020 | .02970 | -6.01910 |
| 1.199 | -2.451 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -2.98450 |
| 1.200 | -.096 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | -.11710 |
| 1.200 | 2.496 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | 3.04020 |
| 1.201 | 5.024 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | 6.11260 |
| 1.200 | 10.003 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | 12.12800 |
| 1.201 | 15.005 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | 18.08500 |
| 1.200 | 18.125 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | 21.74200 |
| 1.199 | 22.818 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | 27.13800 |
| GRADIENT | -.00000 | .00000 | .00164 | .00140 | .00000 | .00164 | -.00140 | 1.21728 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(D2F096) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 AILRON = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDBRK = 40.000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 711/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|---------|--------|---------|--------|-----------|
| 1.407 | -14.993 | .00850 | .02040 | .01150 | .02970 | .01190 | .01820 | -18.07000 |
| 1.406 | -10.745 | .01700 | .02040 | .01150 | .03960 | .00340 | .02810 | -13.01700 |
| 1.404 | -4.947 | .02550 | .02040 | .01150 | .02970 | -.00510 | .01820 | -6.01910 |
| 1.403 | -2.418 | .02550 | .02040 | .01150 | .02970 | -.00510 | .01820 | -2.94490 |
| 1.402 | -1.110 | .02550 | .02040 | .01150 | .02970 | -.00510 | .01820 | -1.1360 |
| 1.403 | 2.505 | .01700 | .02040 | .01150 | .03960 | .00340 | .02810 | 3.05070 |
| 1.402 | 5.005 | .01700 | .02040 | .01150 | .03960 | .00340 | .02810 | 6.09000 |
| 1.403 | 10.011 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | 12.13700 |
| 1.403 | 15.022 | .01700 | .02040 | .01150 | .03960 | .00340 | .02810 | 18.10500 |
| 1.402 | 18.107 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | 21.72100 |
| 1.402 | 22.780 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | 27.09500 |
| | GRADIENT | -.00105 | -.00000 | -.00000 | .00122 | .00105 | .00122 | 1.21727 |

AMES 118-1-11 OAI45A 01

(D2F097) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 ELEVON = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BDFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDBRK = 40.000 RUDDER = -5.000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 729/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|--------|--------|---------|---------|---------|----------|
| .598 | -6.019 | .01700 | .01020 | .02300 | .01980 | -.00680 | -.00320 | -6.01000 |
| .598 | -1.918 | .00850 | .01020 | .02300 | .00990 | .00170 | -.01310 | -6.01910 |
| .597 | -.881 | .00850 | .01020 | .02300 | .00990 | .00170 | -.01310 | -6.01910 |
| .598 | .079 | .00850 | .01020 | .02300 | .00990 | .00170 | -.01310 | -6.02820 |
| .597 | .627 | .00850 | .01020 | .02300 | .00990 | .00170 | -.01310 | -6.01910 |
| .597 | 1.152 | .00850 | .01020 | .02300 | .00990 | .00170 | -.01310 | -6.02820 |
| .597 | 2.199 | .00850 | .01020 | .02300 | .00990 | .00170 | -.01310 | -6.02820 |
| .597 | 3.229 | .00850 | .01020 | .02300 | .00990 | .00170 | -.01310 | -6.02820 |
| .597 | 4.265 | .00850 | .01020 | .02300 | .00990 | .00170 | -.01310 | -6.02820 |
| .597 | 6.323 | .00850 | .01020 | .02300 | .00990 | .00170 | -.01310 | -6.02820 |
| | GRADIENT | -.00000 | .00000 | .00000 | -.00000 | .00000 | -.00000 | -.00165 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(02F097) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 ELEVON = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BOFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDGRK = 40.000 RUDDER = -5.000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 723/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|--------|--------|--------|--------|--------|---------|----------|
| .902 | -6.110 | .0000 | .01020 | .02300 | .03960 | .01020 | .01660 | -6.01910 |
| .900 | -1.948 | .00000 | .01020 | .01150 | .03960 | .01020 | .02810 | -6.04640 |
| .900 | -.904 | .00000 | .01020 | .02300 | .03960 | .01020 | .01660 | -6.05550 |
| .900 | .164 | .00000 | .01020 | .02300 | .03960 | .01020 | .01660 | -6.05550 |
| .899 | .662 | .00000 | .01020 | .02300 | .03960 | .01020 | .01660 | -6.05550 |
| .900 | 1.191 | .00000 | .01020 | .02300 | .03960 | .01020 | .01660 | -6.05550 |
| .898 | 2.231 | .00000 | .01020 | .02300 | .03960 | .01020 | .01660 | -6.05550 |
| .898 | 3.275 | .00000 | .01020 | .02300 | .03960 | .01020 | .01660 | -6.06450 |
| .899 | 4.312 | .00000 | .01020 | .02300 | .03960 | .01020 | .01660 | -6.07360 |
| .897 | 6.384 | .00000 | .01020 | .01150 | .03960 | .01020 | .02810 | -6.01910 |
| GRADIENT | | .00000 | .00000 | .00115 | .00000 | .00000 | -.00115 | -.00342 |

RUN NO. 719/ 0 RN/L = 5.08 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|--------|---------|--------|--------|---------|--------|----------|
| .953 | -6.100 | .02550 | .02040 | .01150 | .02970 | -.00510 | .01820 | -6.01910 |
| .950 | -1.952 | .02550 | .02040 | .01150 | .02970 | -.00510 | .01820 | -6.02820 |
| .952 | -.903 | .02550 | .02040 | .01150 | .02970 | -.00510 | .01820 | -6.02820 |
| .951 | .169 | .02550 | .02040 | .01150 | .02970 | -.00510 | .01820 | -6.02820 |
| .951 | .646 | .02550 | .02040 | .01150 | .02970 | -.00510 | .01820 | -6.02820 |
| .951 | 1.170 | .02550 | .01020 | .01150 | .03960 | -.01530 | .02810 | -6.02820 |
| .949 | 2.228 | .02550 | .02040 | .01150 | .03960 | -.00510 | .02810 | -6.03730 |
| .950 | 3.276 | .02550 | .02040 | .01150 | .03960 | -.00510 | .02810 | -6.04640 |
| .950 | 4.318 | .02550 | .01020 | .01150 | .03960 | -.01530 | .02810 | -6.05550 |
| .948 | 6.385 | .02550 | .02040 | .01150 | .03960 | -.00510 | .02810 | -6.03730 |
| GRADIENT | | .00000 | -.00108 | .00000 | .00210 | -.00108 | .00210 | -.00444 |

RUN NO. 715/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|--------|--------|--------|--------|---------|--------|----------|
| 1.200 | -6.087 | .01700 | .02040 | .01150 | .02970 | -.00340 | .01820 | -6.04640 |
| 1.200 | -1.944 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -6.07360 |
| 1.200 | -.897 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -6.05550 |
| 1.199 | .146 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -6.06450 |
| 1.200 | .642 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -6.05450 |
| 1.200 | 1.153 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -6.05450 |
| 1.200 | 2.207 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -6.06450 |
| 1.200 | 3.256 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -6.06450 |
| 1.199 | 4.296 | .03400 | .01020 | .01150 | .02970 | -.02380 | .01820 | -6.01000 |
| 1.197 | 6.361 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -6.01000 |
| GRADIENT | | .00256 | .00000 | .00000 | .00000 | -.00256 | .00000 | .00602 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 40.000 RUDDER = -5.000
RN/L = 5.000

RUN NO. 709/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|--------|--------|--------|---------|--------|----------|
| 1.404 | -6.218 | .02550 | .02040 | .01150 | .02970 | -.00510 | .01820 | -6.03730 |
| 1.409 | -2.071 | .02550 | .02040 | .01150 | .02970 | -.00510 | .01820 | -6.06450 |
| 1.408 | -1.017 | .02550 | .02040 | .01150 | .02970 | -.00510 | .01820 | -6.06450 |
| 1.407 | .057 | .02550 | .02040 | .01150 | .02970 | -.00510 | .01820 | -6.04640 |
| 1.406 | .572 | .02550 | .02040 | .01150 | .02970 | -.00510 | .01820 | -6.01000 |
| 1.407 | 1.107 | .02550 | .02040 | .01150 | .02970 | -.00340 | .01820 | -6.01000 |
| 1.405 | 2.158 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -6.01000 |
| 1.405 | 3.203 | .01700 | .02040 | .01150 | .02970 | .00510 | .01820 | -6.01000 |
| 1.404 | 4.247 | .02550 | .03060 | .01150 | .02970 | .00510 | .01820 | -6.02820 |
| 1.404 | 6.359 | .03400 | .02040 | .01150 | .02970 | -.01360 | .01820 | -6.02820 |
| 1.402 | GRADIENT | -.00090 | .00105 | .00000 | .00000 | .00194 | .00000 | .01010 |

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REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 55.000 RUDDER = .000
RN/L = 5.000

RUN NO. 585/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|---------|--------|---------|--------|---------|
| .598 | -5.044 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.15000 |
| .598 | -.055 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.15000 |
| .597 | 2.496 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.17190 |
| .598 | 4.995 | .00850 | .01020 | .00000 | .02970 | .00170 | .02970 | -.17190 |
| .599 | 7.036 | .00000 | .01020 | .00000 | .02970 | .01020 | .02970 | -.19370 |
| .597 | 8.071 | .00000 | .01020 | .00000 | .02970 | .01020 | .02970 | -.19370 |
| .597 | 10.116 | .00850 | .01020 | .00000 | .02970 | .00170 | .01820 | -.17190 |
| .597 | 12.179 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.17190 |
| .599 | 15.203 | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | -.16090 |
| .599 | GRADIENT | .00000 | .00000 | -.00227 | .00000 | .00000 | .00227 | -.00435 |

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OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 55.000 RUDDER = .000
 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 579/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|--------|---------|--------|---------|--------|---------|
| .797 | -5.031 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -.19370 |
| .799 | .008 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -.18280 |
| .798 | 2.739 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.16090 |
| .799 | 5.189 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.15000 |
| .797 | 7.199 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.15000 |
| .798 | 8.265 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.14180 |
| .798 | 9.319 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.16090 |
| .799 | 10.184 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.13360 |
| .798 | 11.292 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.12540 |
| .798 | 12.259 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.12540 |
| .799 | 15.278 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.12540 |
| GRADIENT | | -.00311 | .00000 | -.00000 | .00000 | .00311 | .00000 | .00802 |

RUN NO. 563/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|---------|---------|--------|---------|--------|---------|
| .899 | -5.104 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.13360 |
| .899 | -.126 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.13360 |
| .899 | 2.426 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.13360 |
| .902 | 4.982 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.11710 |
| .903 | 7.102 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.12540 |
| .898 | 8.114 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.11710 |
| .900 | 10.158 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.12540 |
| .901 | 12.223 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.11710 |
| .903 | 15.254 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.14180 |
| GRADIENT | | -.00166 | -.00000 | -.00000 | .00000 | .00166 | .00000 | .00323 |

RUN NO. 560/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|--------|--------|---------|--------|--------|--------|--------|---------|
| .950 | -5.113 | .00850 | .01020 | .02300 | .02970 | .00170 | .00670 | -.12540 |
| .950 | -.082 | .00850 | .01020 | .02300 | .02970 | .00170 | .00670 | -.12540 |
| .950 | 2.462 | .00850 | .01020 | .02300 | .02970 | .00170 | .00670 | -.12540 |
| .951 | 5.051 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.12540 |
| .950 | 7.112 | .00000 | .01020 | .01150 | .02970 | .00170 | .01820 | -.12540 |
| .950 | 8.145 | .00850 | .01020 | .02300 | .02970 | .00170 | .00670 | -.11710 |
| .950 | 10.200 | .00000 | .01020 | .01150 | .02970 | .00170 | .01820 | -.13360 |
| .949 | 12.223 | .00000 | .01020 | .01150 | .02970 | .00170 | .01820 | -.13360 |
| .949 | 15.268 | .00000 | .01020 | .02300 | .02970 | .00170 | .00670 | -.12540 |
| .954 | | .00000 | -.00000 | .00000 | .00000 | .00000 | .00000 | .00000 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

(02F098) (08 JUL 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 55.000 RUDDER = .000
RN/L = 5.000

PARAMETRIC DATA

RUN NO. 551/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|---------|---------|---------|---------|---------|
| 1.100 | -5.114 | .04250 | .01020 | .03450 | .02970 | -.03230 | -.00480 | -.09250 |
| 1.102 | -.038 | .02550 | .01020 | .02300 | .02970 | -.01530 | .00670 | -.09250 |
| 1.098 | 2.479 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -.09250 |
| 1.099 | 5.060 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.08430 |
| 1.102 | 7.125 | .01700 | .01020 | .02300 | .01980 | -.00680 | .00320 | -.08430 |
| 1.101 | 8.145 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.08430 |
| 1.100 | 10.194 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.07610 |
| 1.102 | 12.227 | .01700 | .01020 | .02300 | .02970 | -.00680 | .00670 | -.11710 |
| 1.099 | 15.268 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.00000 |
| | GRADIENT | .00000 | .00000 | -.00457 | -.00393 | .00000 | .00064 | |

RUN NO. 534/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|--------|--------|---------|---------|---------|---------|
| 1.200 | -5.129 | .00850 | .02040 | .02300 | .02970 | .01190 | .00670 | -.15000 |
| 1.207 | -.860 | .00850 | .00000 | .02300 | .02970 | -.00850 | .00670 | -.15000 |
| 1.200 | 2.486 | .00000 | .00000 | .02300 | .02970 | .00000 | .00670 | -.14180 |
| 1.198 | 5.113 | .00000 | .01020 | .02300 | .02970 | .01020 | .00670 | -.14180 |
| 1.198 | 7.162 | .00000 | .02040 | .02300 | .02970 | .02040 | .00670 | -.14180 |
| 1.199 | 8.196 | .00000 | .01020 | .02300 | .02970 | .01020 | .00670 | -.13360 |
| 1.196 | 10.285 | .00000 | .00000 | .02300 | .02970 | .00000 | .00670 | -.12540 |
| 1.197 | 12.278 | .00000 | .00000 | .02300 | .02970 | .00000 | .00670 | -.12540 |
| 1.189 | 15.289 | .00000 | .00000 | .02300 | .02970 | .00000 | .00670 | -.00245 |
| | GRADIENT | -.00254 | .00000 | .00000 | -.00000 | .00254 | -.00000 | |

RUN NO. 533/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|---------|---------|--------|---------|---------|---------|
| 1.300 | -5.130 | .00000 | .02040 | .02300 | .00000 | .02040 | -.02300 | -.14180 |
| 1.300 | -.032 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -.13360 |
| 1.297 | 2.460 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -.12540 |
| 1.294 | 5.112 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -.11710 |
| 1.295 | 7.148 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -.10070 |
| 1.295 | 8.187 | .00000 | .00000 | .02300 | .00000 | .01020 | -.02300 | -.08430 |
| 1.295 | 10.274 | .00000 | .00000 | .02300 | .00000 | .00000 | -.02300 | -.06790 |
| 1.293 | 12.266 | .00000 | .00000 | .02300 | .00000 | .00000 | -.02300 | -.14180 |
| 1.293 | 15.273 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -.12540 |
| | GRADIENT | .00000 | -.00000 | -.00000 | .00000 | -.00000 | .00000 | .00329 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

PAGE 1487
(02F098) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

RUN NO. 514/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH
1.400
1.410
1.405
1.402
1.401
1.401
1.401
1.399
1.399
1.396

ALPHA
-5.109
- .042
2.430
5.011
7.037
8.168
10.214
12.223
15.289
GRADIENT

ELV-LO .00850
.00000
.00000
.00000
.00000
.00000
.00000
.00000
.00000
.00000

ELV-LI .03060
.01020
.01020
.01020
.01020
.01020
.01020
.00000
.00000
.00000

ELV-RO .02300
.02300
.01150
.02300
.02300
.01150
.02300
.02300
.02300
-.00465

ELV-RI .01980
.01980
.01980
.01980
.01980
.00990
.01980
.01980
.01980
.00000

DELL .02210
.01020
.01020
.01020
.01020
.01020
.01020
.00000
.00000
.00000

DELR -.00320
-.00320
.00830
.00320
.00320
.00160
.00320
-.00320
-.00320
.00465

DRHL -.16090
-.17190
-.16090
-.17190
-.17190
-.16090
-.17190
-.16090
-.16090
.00465

BETA = .000 ELEVON = .000
AILRON = .000 BOFLAP = .000
SPDBRK = 55.000 RUDDER = .000
RN/L = 5.000

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

RUN NO. 872/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH
.597
.599
.598
.597
.597
.597
.597
.597
.596
.597
.597

ALPHA
-5.234
- .258
2.258
4.946
7.993
10.079
12.070
15.068
17.057
19.010
GRADIENT

ELV-LO .00850
.00850
.00850
.00850
.00850
.00850
.00850
.00850
.01700
.00850
-.00000

ELV-LI .04080
.04080
.04080
.04080
.03060
.03060
.03060
.04080
.03060
.03060
.00000

ELV-RO .02300
.02300
.02300
.02300
.02300
.01150
.02300
.02300
.02300
.00000

ELV-RI .02970
.02970
.02970
.01980
.01980
.01980
.01980
.01980
.01980
-.00192

DELL .03230
.03230
.03230
.03230
.02210
.02210
.02210
.01360
.02210
-.00000

DELR .00670
.00670
.00670
-.00320
-.00320
-.00320
-.00320
-.00320
-.00320
-.00192

DRHL -.12540
-.12540
-.12540
-.12540
-.13360
-.12540
-.12540
-.12540
-.12540
-.12540

BETA = 2.000 ELEVON = .000
AILRON = .000 BOFLAP = .000
SPDBRK = 55.000 RUDDER = .000
RN/L = 5.000

PARAMETRIC DATA

AMES 118-1-11 OAI45A 01

(02F099) (08 JUL 77)

OA145 TABULATED FORCE DATA
ANES 118-1-11 OA145A 01

DATE 10 MAR 80

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BOFLAP = .000
SPOBRK = 55.000 RUDDER = .000
RN/L = 5.000

RUN NO. 871/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|--------|--------|--------|--------|--------|--------|---------|
| .797 | -5.254 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -.13360 |
| .801 | -2.257 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -.12540 |
| .798 | 2.268 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -.12540 |
| .798 | 4.921 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -.11710 |
| .799 | 8.071 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -.11710 |
| .799 | 10.083 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -.11710 |
| .798 | 12.073 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -.10890 |
| .798 | 15.140 | .00850 | .03060 | .02300 | .02970 | .01360 | .00670 | -.10070 |
| .799 | 17.091 | .01700 | .03060 | .02300 | .02970 | .01360 | .00670 | -.13360 |
| .800 | 19.027 | .01700 | .03060 | .02300 | .02970 | .01360 | .00670 | .00162 |
| GRADIENT | | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | |

RUN NO. 870/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|--------|--------|--------|--------|--------|--------|---------|
| .899 | -5.282 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -.13360 |
| .900 | -2.263 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -.12540 |
| .899 | 2.287 | .00850 | .04080 | .01150 | .02970 | .03230 | .01820 | -.12540 |
| .899 | 4.940 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -.12540 |
| .899 | 8.074 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -.11710 |
| .899 | 10.126 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -.12540 |
| .900 | 12.120 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -.13360 |
| .899 | 15.143 | .01700 | .03060 | .01150 | .02970 | .01360 | .01820 | -.14180 |
| .899 | 17.109 | .01700 | .03060 | .01150 | .02970 | .01360 | .00670 | -.13360 |
| .898 | 19.064 | .01700 | .03060 | .02300 | .02970 | .01360 | .00670 | .00000 |
| GRADIENT | | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | |

RUN NO. 869/ 0 RN/L = 5.08 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|--------|--------|--------|--------|--------|--------|---------|
| .951 | -5.286 | .01700 | .04080 | .01150 | .03960 | .03380 | .02810 | -.11710 |
| .951 | -2.247 | .00850 | .03060 | .01150 | .03960 | .02210 | .02810 | -.12540 |
| .950 | 2.285 | .00850 | .03060 | .01150 | .02970 | .02210 | .01820 | -.11710 |
| .951 | 4.918 | .01700 | .03060 | .01150 | .03960 | .01360 | .02810 | -.10890 |
| .951 | 8.108 | .01700 | .03060 | .01150 | .03960 | .01360 | .02810 | -.12540 |
| .950 | 10.129 | .01700 | .03060 | .01150 | .03960 | .01360 | .02810 | -.12540 |
| .950 | 12.126 | .02550 | .03060 | .01150 | .02970 | .00510 | .01820 | -.13360 |
| .949 | 15.148 | .01700 | .04080 | .01150 | .02970 | .02380 | .01820 | -.13360 |
| .950 | 17.126 | .01700 | .03060 | .01150 | .02970 | .02380 | .01820 | -.12540 |
| .950 | 19.082 | .01700 | .03060 | .01150 | .02970 | .01360 | .01820 | .00319 |
| GRADIENT | | .00166 | .00000 | .00000 | .00002 | .00166 | .00002 | |

DATE 10 MAR 80

OAI145 TABULATED FORCE DATA

PAGE 1489

(02F099) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AILRON = .000 EFLAP = .000
 SPDBRK = 55.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 868/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|---------|---------|--------|--------|---------|
| 1.197 | -5.270 | .00850 | .04080 | .01150 | .03960 | .03230 | .02810 | -.14180 |
| 1.202 | -.237 | .01700 | .04080 | .01150 | .03960 | .02360 | .02810 | -.14180 |
| 1.201 | 2.298 | .01700 | .03060 | .01150 | .03960 | .01360 | .02810 | -.14180 |
| 1.199 | 4.915 | .01700 | .04080 | .01150 | .03960 | .02380 | .02810 | -.14180 |
| 1.198 | 8.078 | .01700 | .04080 | .01150 | .03960 | .02380 | .02810 | -.14180 |
| 1.200 | 10.119 | .01700 | .04080 | .01150 | .03960 | .02380 | .02810 | -.13360 |
| 1.200 | 12.122 | .01700 | .04080 | .01150 | .03960 | .02380 | .02810 | -.14180 |
| 1.199 | 15.136 | .01700 | .03060 | .01150 | .03960 | .01360 | .02810 | -.14180 |
| 1.200 | 17.129 | .00850 | .03060 | .01150 | .03960 | .02210 | .02810 | -.13360 |
| 1.200 | 19.063 | .00850 | .03060 | .01150 | .03960 | .02210 | .02810 | -.13360 |
| 1.198 | GRADIENT | .00000 | .00002 | -.00000 | -.00000 | .00002 | .00000 | .00000 |

RUN NO. 867/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|---------|--------|--------|---------|--------|---------|
| 1.295 | -5.259 | .01700 | .01020 | .01150 | .03960 | -.00680 | .02810 | -.14180 |
| 1.300 | -.251 | .00850 | .01020 | .01150 | .03960 | .00170 | .02810 | -.14180 |
| 1.297 | 2.278 | .01700 | .01020 | .01150 | .03960 | -.00680 | .02810 | -.14180 |
| 1.297 | 4.931 | .01700 | .01020 | .01150 | .03960 | -.00680 | .02810 | -.14180 |
| 1.295 | 8.092 | .01700 | .01020 | .01150 | .03960 | -.00680 | .02810 | -.14180 |
| 1.295 | 10.108 | .00850 | .00000 | .01150 | .03960 | -.00850 | .02810 | -.14180 |
| 1.294 | 12.148 | .01700 | .01020 | .01150 | .03960 | -.00680 | .02810 | -.14180 |
| 1.294 | 15.151 | .01700 | .01020 | .01150 | .03960 | -.00680 | .02810 | -.14180 |
| 1.293 | 17.114 | .01700 | .01020 | .01150 | .03960 | -.00680 | .02810 | -.13360 |
| 1.291 | 19.048 | .00850 | .03060 | .01150 | .03960 | .02210 | .02810 | -.12540 |
| | GRADIENT | .00163 | -.00000 | .00000 | .00000 | -.00163 | .00000 | .00000 |

RUN NO. 866/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|--------|---------|---------|---------|--------|---------|
| 1.402 | -5.275 | .02550 | .01020 | .01150 | .03960 | -.01530 | .02810 | -.15000 |
| 1.407 | -.240 | .01700 | .00000 | .01150 | .03960 | -.01700 | .02810 | -.14180 |
| 1.404 | 2.257 | .01700 | .00000 | .01150 | .03960 | -.01700 | .02810 | -.14180 |
| 1.402 | 4.877 | .01700 | .00000 | .01150 | .03960 | -.01700 | .02810 | -.15000 |
| 1.401 | 8.079 | .01700 | .00000 | .01150 | .03960 | -.01700 | .02810 | -.14180 |
| 1.402 | 10.059 | .01700 | .00000 | .01150 | .04950 | -.01700 | .03800 | -.14180 |
| 1.403 | 12.109 | .01700 | .01020 | .01150 | .03960 | -.00680 | .02810 | -.14180 |
| 1.401 | 15.094 | .01700 | .00000 | .00000 | .03960 | -.01700 | .03960 | -.14180 |
| 1.397 | 17.103 | .01700 | .01020 | .01150 | .03960 | -.00680 | .02810 | -.14180 |
| 1.392 | 19.032 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.14180 |
| | GRADIENT | -.00000 | .00000 | -.00000 | -.00000 | .00000 | .00000 | -.00161 |

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0A145 TABULATED FORCE DATA

PAGE 1490

AMES 118-1-11 0A145A 01

(DEF0A0) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

ALPHA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 55.000 RUDDER = .000
RN/L = 5.000

PARAMETRIC DATA

RUN NO. 590/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | | | | | |
|------|----------|--------|--------|--------|--------|--------|--------|---------|
| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
| .598 | -6.073 | .00850 | .01020 | .01150 | .05940 | .00170 | .04790 | -.04320 |
| .598 | -1.986 | .00850 | .01020 | .00000 | .05940 | .00170 | .05940 | -.31390 |
| .598 | -.941 | .00850 | .01020 | .01150 | .05940 | .00170 | .04790 | -.34670 |
| .597 | .105 | .00850 | .01020 | .01150 | .05940 | .00170 | .05940 | -.36860 |
| .598 | .614 | .00850 | .01020 | .00000 | .05940 | .00170 | .05940 | -.36860 |
| .598 | 1.132 | .00850 | .01020 | .01150 | .05940 | .00170 | .04790 | -.37950 |
| .598 | 2.170 | .00850 | .01020 | .01150 | .05940 | .00170 | .04790 | .07180 |
| .597 | 3.195 | .00850 | .01020 | .01150 | .06930 | .00170 | .05780 | -.33580 |
| .597 | 4.225 | .00850 | .01020 | .01150 | .06930 | .00170 | .05780 | -.36860 |
| .597 | 6.258 | .00850 | .01020 | .01150 | .06930 | .00170 | .05780 | -.05960 |
| .597 | 8.260 | .00850 | .01020 | .01150 | .06930 | .00170 | .05780 | -.05140 |
| .597 | GRADIENT | .00000 | .00000 | .00133 | .00173 | .00000 | .00040 | .01143 |

RUN NO. 575/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | | | | | |
|------|----------|--------|--------|--------|---------|--------|---------|---------|
| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
| .798 | -6.247 | .00000 | .01020 | .01150 | .03960 | .01020 | .02810 | -.15000 |
| .798 | -2.133 | .00000 | .01020 | .01150 | .03960 | .01020 | .02810 | -.27020 |
| .798 | -1.080 | .00000 | .01020 | .01150 | .03960 | .01020 | .02810 | -.29210 |
| .799 | .001 | .00000 | .01020 | .01150 | .03960 | .01020 | .02810 | -.10890 |
| .799 | .521 | .00000 | .01020 | .01150 | .03960 | .01020 | .02810 | -.09250 |
| .799 | 1.046 | .00000 | .01020 | .01150 | .03960 | .01020 | .02810 | -.08430 |
| .798 | 2.109 | .00000 | .01020 | .01150 | .03960 | .01020 | .02810 | -.08430 |
| .799 | 3.155 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.12540 |
| .798 | 4.199 | .00000 | .01020 | .01150 | .03960 | .01020 | .02810 | -.16090 |
| .797 | 6.268 | .00000 | .01020 | .01150 | .03960 | .01020 | .02810 | -.10070 |
| .796 | 8.330 | .00000 | .01020 | .01150 | .03960 | .01020 | .02810 | -.02680 |
| .796 | GRADIENT | .00000 | .00000 | .00000 | -.00069 | .00000 | -.00069 | .02215 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1491

AMES 118-1-11 OAI45A 01

(02F0A0) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPOBRK = 55.000 RUDDER = .000
 RN/L = 5.000

| RUN NO. 572/ 0 | | RN/L = 4.95 | | GRADIENT INTERVAL = -5.00/ 5.00 | | | | |
|----------------|----------|-------------|--------|---------------------------------|--------|---------|--------|---------|
| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
| .899 | -6.253 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -.10890 |
| .901 | -2.129 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -.29210 |
| .900 | -1.070 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -.33580 |
| .899 | .015 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -.36860 |
| .900 | .537 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -.10070 |
| .899 | 1.064 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -.11710 |
| .898 | 2.132 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -.15000 |
| .900 | 3.184 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -.18280 |
| .898 | 4.228 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -.25930 |
| .896 | 6.307 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -.34670 |
| .896 | 8.372 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.15000 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | -.00000 | .00000 | .01879 |

| RUN NO. 553/ 0 | | RN/L = 4.98 | | GRADIENT INTERVAL = -5.00/ 5.00 | | | | |
|----------------|----------|-------------|--------|---------------------------------|--------|---------|---------|---------|
| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
| .951 | -6.277 | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | -.10070 |
| .952 | -2.137 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.13360 |
| .950 | -1.078 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.15000 |
| .949 | .005 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.15000 |
| .951 | .531 | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | -.15000 |
| .950 | 1.053 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.15000 |
| .948 | 2.125 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.15000 |
| .948 | 3.176 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.13360 |
| .947 | 4.223 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.14180 |
| .946 | 6.307 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -.15000 |
| .945 | 8.372 | .02550 | .01020 | .01150 | .03960 | -.01530 | .02810 | -.15000 |
| | GRADIENT | -.00232 | .00000 | .00017 | .00000 | .00232 | -.00017 | .00035 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1493

AMES 118-1-11 OAI45A 01

(02F0A1) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDDBRK = 55.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 582/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|--------|--------|---------|
| .800 | -6.051 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | .16210 |
| .799 | -1.945 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.16090 |
| .798 | -.910 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.25930 |
| .798 | .036 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.14180 |
| .800 | .494 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.14180 |
| .800 | 1.018 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.14180 |
| .799 | 2.084 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.20460 |
| .800 | 3.124 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.29210 |
| .800 | 4.160 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.17190 |
| .797 | 6.239 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.29210 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.00681 |

RUN NO. 567/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|---------|--------|---------|
| .902 | -6.116 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.16090 |
| .900 | -1.968 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.13360 |
| .900 | -.920 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.14180 |
| .899 | .140 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.15000 |
| .899 | .628 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.15000 |
| .900 | 1.152 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.15000 |
| .899 | 2.206 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.16090 |
| .899 | 3.257 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.15000 |
| .899 | 4.297 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.18280 |
| .895 | 6.368 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.14180 |
| | GRADIENT | .00085 | .00000 | .00000 | .00000 | -.00085 | .00000 | -.00598 |

RUN NO. 556/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|--------|---------|--------|---------|--------|---------|
| .950 | -6.140 | .02550 | .01020 | .02300 | .02970 | -.01530 | .00670 | -.09250 |
| .950 | -1.978 | .03400 | .01020 | .01150 | .02970 | -.02380 | .01820 | -.16090 |
| .950 | -.928 | .03400 | .01020 | .01150 | .02970 | -.02380 | .01820 | -.11710 |
| .950 | .136 | .03400 | .01020 | .01150 | .02970 | -.02380 | .01820 | -.12540 |
| .949 | .624 | .03400 | .01020 | .01150 | .02970 | -.02380 | .01820 | -.12540 |
| .950 | 1.143 | .03400 | .01020 | .01150 | .02970 | -.02380 | .01820 | -.13360 |
| .948 | 2.200 | .03400 | .01020 | .01150 | .02970 | -.02380 | .01820 | -.13360 |
| .948 | 3.248 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.14180 |
| .948 | 4.289 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.15000 |
| .946 | 6.363 | .00850 | .01020 | .02300 | .03960 | .00170 | .01660 | -.10890 |
| | GRADIENT | -.00444 | .00000 | -.00000 | .00000 | .00444 | .00000 | -.00102 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

AMES 118-1-11 OAI45A 01

(DEFOAI) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA
ALPHA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPOBRK = 55.000 RUDDER = .000
RN/L = 5.000

RUN NO. 552/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|--------|---------|--------|---------|
| 1.101 | -6.116 | .02550 | .01020 | .02300 | .02970 | -.01530 | .00670 | -.13360 |
| 1.099 | -1.968 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -.15000 |
| 1.100 | -.927 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -.15000 |
| 1.100 | .129 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -.13360 |
| 1.099 | .641 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -.13360 |
| 1.100 | 1.146 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -.13360 |
| 1.098 | 2.189 | .03400 | .01020 | .01150 | .02970 | -.02380 | .01820 | -.14180 |
| 1.098 | 3.230 | .03400 | .01020 | .01150 | .02970 | -.02380 | .01820 | -.15000 |
| 1.098 | 4.266 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -.15000 |
| 1.098 | 6.339 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -.15000 |
| | GRADIENT | .00091 | .00000 | .00000 | .00000 | -.00091 | .00000 | .00044 |

RUN NO. 538/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|---------|--------|---------|---------|---------|---------|
| 1.201 | -6.123 | .00000 | .00000 | .01150 | .03960 | .00000 | .02810 | -.10070 |
| 1.201 | -1.957 | .00850 | .00000 | .00000 | .03960 | -.00850 | .03960 | -.13360 |
| 1.199 | -.921 | .00850 | .00000 | .00000 | .03960 | -.00850 | .03960 | -.13360 |
| 1.200 | .030 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -.13360 |
| 1.200 | .691 | .00000 | .01020 | .00000 | .03960 | .01020 | .03960 | -.13360 |
| 1.201 | 1.158 | .00000 | .01020 | .01150 | .03960 | .00170 | .02810 | -.14180 |
| 1.200 | 2.191 | .00850 | .01020 | .01150 | .03960 | -.00850 | .03960 | -.14180 |
| 1.200 | 3.239 | .00850 | .00000 | .00000 | .03960 | -.00850 | .02810 | -.14180 |
| 1.201 | 4.275 | .02550 | .00000 | .01150 | .03960 | -.02550 | .02810 | -.14180 |
| 1.197 | 6.353 | .01700 | .00000 | .01150 | .03960 | -.01700 | .02810 | -.14180 |
| | GRADIENT | .00157 | -.00009 | .00154 | -.00000 | -.00156 | -.00154 | -.00173 |

RUN NO. 530/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|--------|--------|--------|---------|--------|---------|---------|---------|
| 1.297 | -6.081 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -.15000 |
| 1.301 | -1.964 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -.15000 |
| 1.299 | -.920 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -.15000 |
| 1.298 | .151 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -.15000 |
| 1.298 | .627 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -.15000 |
| 1.298 | 1.154 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -.15000 |
| 1.299 | 2.207 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -.15000 |
| 1.299 | 3.261 | .00850 | .01020 | .02300 | .00000 | .00170 | -.02300 | -.15000 |
| 1.297 | 4.303 | .00850 | .01020 | .02300 | .00000 | .00170 | -.02300 | -.15000 |
| 1.296 | 6.377 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -.15000 |
| 1.294 | | .00148 | .00000 | -.00000 | .00000 | -.00148 | .00000 | -.00000 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1495

AMES 118-1-11 0A145A 01

(DEF0A1) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 ELEVON = .000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BDFLAP = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDBRK = 55.000 RUDDER = .000
SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 518/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|---------|--------|--------|---------|---------|---------|
| 1.403 | -6.119 | .05950 | .01020 | .02300 | .00990 | -.04930 | -.01310 | -.15000 |
| 1.406 | -1.976 | .05950 | .01020 | .02300 | .00990 | -.04930 | -.01310 | -.17190 |
| 1.406 | -.924 | .05950 | .01020 | .02300 | .00990 | -.04930 | -.01310 | -.17190 |
| 1.406 | .150 | .05950 | .00000 | .02300 | .00990 | -.05950 | -.01310 | -.17190 |
| 1.404 | .629 | .05950 | .00000 | .02300 | .00990 | -.05950 | -.01310 | -.18280 |
| 1.403 | 1.153 | .05950 | .00000 | .02300 | .00990 | -.05950 | -.01310 | -.18280 |
| 1.404 | 2.214 | .05950 | .00000 | .02300 | .00990 | -.05950 | -.01310 | -.17190 |
| 1.402 | 3.267 | .05950 | .00000 | .02300 | .00990 | -.05950 | -.01310 | -.18280 |
| 1.402 | 4.313 | .05950 | .00000 | .02300 | .00990 | -.05950 | -.01310 | -.18280 |
| 1.400 | 6.402 | .05950 | .00000 | .02300 | .00990 | -.05950 | -.01310 | -.18280 |
| | GRADIENT | .00000 | -.00168 | .00000 | .00000 | -.00168 | -.00000 | -.00061 |

AMES 118-1-11 0A145A 01

(DEF0A2) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 10.000 ELEVON = .000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BDFLAP = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDBRK = 55.000 RUDDER = .000
SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 591/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|---------|--------|---------|
| .598 | -6.045 | .03400 | .01020 | .01150 | .07920 | -.02380 | .06770 | .07180 |
| .597 | -1.990 | .03400 | .01020 | .00000 | .07920 | -.02380 | .07920 | -.07610 |
| .597 | -.972 | .03400 | .01020 | .01150 | .08910 | -.02380 | .07760 | -.15000 |
| .597 | .059 | .03400 | .01020 | .01150 | .08910 | -.02380 | .07760 | -.15000 |
| .597 | .557 | .03400 | .01020 | .01150 | .08910 | -.02380 | .07760 | -.16090 |
| .597 | 1.059 | .03400 | .01020 | .01150 | .09900 | -.02380 | .08750 | -.17190 |
| .598 | 2.094 | .03400 | .01020 | .01150 | .09900 | -.02380 | .08750 | -.20460 |
| .597 | 3.122 | .03400 | .01020 | .01150 | .09900 | -.02380 | .08750 | -.22650 |
| .596 | 4.163 | .03400 | .01020 | .01150 | .10890 | -.02380 | .09740 | -.30300 |
| .598 | 6.231 | .03400 | .01020 | .01150 | .10890 | -.02380 | .09740 | -.31390 |
| .598 | 8.292 | .03400 | .01020 | .01150 | .10890 | -.02380 | .09740 | -.15000 |
| | GRADIENT | .00000 | .00000 | .00117 | .00419 | -.00000 | .00303 | -.03108 |

0A145 TABULATED FORCE DATA

AMES 110-1-11 0A145A 01

DATE 10 MAR 80

(BDF0AR) (00 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 55.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 576/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|---------|--------|---------|
| .799 | -6.138 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.15000 |
| .798 | -1.992 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.10890 |
| .799 | -.938 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.11710 |
| .797 | .130 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.12540 |
| .799 | .650 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.14180 |
| .798 | 1.186 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.14180 |
| .799 | 2.240 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.15000 |
| .799 | 3.295 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.16090 |
| .797 | 4.336 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.22650 |
| .797 | 6.396 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.23740 |
| .799 | 8.425 | .01700 | .01020 | .01150 | .02970 | -.00580 | .01820 | -.31390 |
| | GRADIENT | .00152 | .00000 | .00000 | .00002 | -.00152 | .00002 | -.01567 |

RUN NO. 573/ 0 RN/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|--------|---------|--------|---------|--------|---------|
| .900 | -6.119 | .01700 | .01020 | .01150 | .02970 | -.00580 | .01820 | -.12540 |
| .900 | -2.024 | .01700 | .01020 | .01150 | .02970 | -.00580 | .01820 | -.09250 |
| .900 | -.991 | .01700 | .01020 | .01150 | .02970 | -.00580 | .01820 | -.19370 |
| .900 | .053 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.08430 |
| .899 | .557 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.11710 |
| .900 | 1.065 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.15000 |
| .899 | 2.117 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.16090 |
| .899 | 3.159 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.08430 |
| .898 | 4.216 | .01700 | .01020 | .01150 | .02970 | -.00580 | .01820 | -.15000 |
| .899 | 6.301 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -.17190 |
| .899 | 8.380 | .00850 | .01020 | .01150 | .03960 | .00170 | .02810 | -.19370 |
| | GRADIENT | -.00052 | .00000 | -.00000 | .00000 | .00052 | .00000 | -.00122 |

(02F0A2) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 10.000 ELEVON = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BDFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPOBRK = 55.000 RUDDER = .000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 554/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|---------|---------|---------|
| .950 | -6.149 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | .00610 |
| .950 | -2.044 | .02550 | .01020 | .02300 | .02970 | -.01530 | .00670 | -.10890 |
| .950 | -1.007 | .02550 | .01020 | .02300 | .02970 | -.01530 | .00670 | -.12540 |
| .949 | .040 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -.10890 |
| .948 | .547 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -.10890 |
| .949 | 1.059 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -.10070 |
| .949 | 2.115 | .02550 | .01020 | .02300 | .02970 | -.01530 | .00670 | -.09250 |
| .948 | 3.161 | .02550 | .01020 | .02300 | .02970 | -.01530 | .00670 | -.10070 |
| .948 | 4.219 | .02550 | .01020 | .02300 | .02970 | -.01530 | .00670 | -.11710 |
| .948 | 6.313 | .02550 | .01020 | .02300 | .02970 | -.01530 | .00670 | -.13360 |
| .949 | 8.392 | .02550 | .01020 | .02300 | .02970 | -.01530 | .00670 | -.15000 |
| | GRADIENT | .00000 | .00000 | .00052 | .00000 | -.00000 | -.00052 | .00141 |

RUN NO. 547/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|--------|--------|---------|---------|---------|---------|
| 1.202 | -6.144 | .01700 | .01020 | .02300 | .03960 | -.00680 | .01660 | -.13360 |
| 1.203 | -2.044 | .01700 | .01020 | .02300 | .04950 | -.00680 | .02650 | -.13360 |
| 1.199 | -1.008 | .01700 | .01020 | .02300 | .03960 | -.00680 | .01660 | -.14180 |
| 1.199 | .036 | .01700 | .01020 | .02300 | .03960 | -.00680 | .01660 | -.14180 |
| 1.200 | .541 | .01700 | .01020 | .02300 | .04950 | -.00680 | .02650 | -.14180 |
| 1.200 | 1.063 | .01700 | .01020 | .02300 | .04950 | -.00680 | .02650 | -.14180 |
| 1.199 | 2.122 | .00850 | .01020 | .02300 | .03960 | .00170 | .01660 | -.15000 |
| 1.197 | 3.170 | .01700 | .01020 | .02300 | .03960 | -.00680 | .01660 | -.15000 |
| 1.198 | 4.227 | .01700 | .01020 | .02300 | .04950 | -.00680 | .02650 | -.15000 |
| 1.197 | 6.316 | .02550 | .01020 | .02300 | .04950 | -.01530 | .02650 | -.15000 |
| 1.197 | 8.389 | .01700 | .01020 | .02300 | .03960 | -.00680 | .01660 | -.14180 |
| | GRADIENT | -.00031 | .00000 | .00000 | -.00009 | .00031 | -.00009 | -.00224 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

AMES 118-1-11 0A145A 01

(02F0A2) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 55.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 526/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|---------|--------|---------|---------|---------|---------|
| 1.294 | -6.180 | .00000 | .02040 | .02300 | .00990 | .02040 | -.01310 | -.15000 |
| 1.300 | -2.018 | .00000 | .02040 | .02300 | .00990 | .02040 | -.01310 | -.16090 |
| 1.300 | -.940 | .00000 | .02040 | .02300 | .00990 | .02040 | -.01310 | -.17190 |
| 1.298 | .156 | .00000 | .02040 | .02300 | .00990 | .02040 | -.01310 | -.17190 |
| 1.296 | .584 | .00000 | .02040 | .02300 | .00990 | .02040 | -.01310 | -.17190 |
| 1.297 | 1.235 | .00000 | .01020 | .02300 | .00990 | .01020 | -.01310 | -.18280 |
| 1.296 | 2.303 | .00000 | .01020 | .02300 | .00990 | .01020 | -.01310 | -.19370 |
| 1.297 | 3.367 | .00000 | .01020 | .02300 | .00990 | .01020 | -.01310 | -.20460 |
| 1.294 | 4.410 | .00000 | .01020 | .02300 | .00990 | .01020 | -.01310 | -.20460 |
| 1.294 | 6.476 | .00000 | .01020 | .02300 | .00990 | .01020 | -.01310 | -.20460 |
| 1.292 | 8.495 | .04250 | .00000 | .02300 | .00990 | -.04250 | -.01310 | -.03890 |
| | GRADIENT | .00000 | -.00211 | .00000 | -.00000 | -.00211 | -.00000 | -.00623 |

RUN NO. 525/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|--------|--------|--------|--------|---------|---------|
| 1.401 | -6.201 | .00850 | .01020 | .01150 | .00990 | .00170 | -.00160 | -.15000 |
| 1.406 | -2.021 | .00850 | .02040 | .01150 | .00990 | .01190 | -.00160 | -.18280 |
| 1.406 | -.942 | .00850 | .02040 | .02300 | .00990 | .01190 | -.00160 | -.19370 |
| 1.406 | .152 | .00850 | .02040 | .01150 | .00990 | .01190 | -.00160 | -.20460 |
| 1.405 | .683 | .00850 | .02040 | .02300 | .00990 | .01190 | -.00160 | -.20460 |
| 1.403 | 1.232 | .00000 | .02040 | .01150 | .00990 | .02040 | -.00160 | -.20460 |
| 1.402 | 2.299 | .00000 | .02040 | .01150 | .00990 | .02040 | -.00160 | -.20460 |
| 1.402 | 3.369 | .00000 | .02040 | .02300 | .00990 | .02040 | -.00160 | -.21560 |
| 1.402 | 4.416 | .00000 | .02040 | .01150 | .00990 | .02040 | -.00160 | -.23740 |
| 1.400 | 6.494 | .00000 | .02040 | .01150 | .00990 | .02040 | -.00160 | -.24840 |
| 1.398 | 8.517 | .00850 | .02040 | .01150 | .00990 | .01190 | -.00160 | -.20460 |
| | GRADIENT | -.00173 | .00000 | .00025 | .00000 | .00173 | -.00025 | -.00426 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500
XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO
ALPHA = 15.000
AILRON = .000
SPDBRK = 55.000
RN/L = 5.000
ELEVON = .000
BDFLAP = .000
RUDDER = .000

PARAMETRIC DATA

RUN NO. 592/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|---------|--------|---------|
| .598 | -6.090 | .02550 | .01020 | .00000 | .02970 | -.01530 | .02970 | .01430 |
| .595 | -1.994 | .02550 | .01020 | .00000 | .02970 | -.01530 | .02970 | -.27020 |
| .598 | -.957 | .02550 | .01020 | .00000 | .02970 | -.01530 | .02970 | -.09250 |
| .598 | .090 | .02550 | .01020 | .00000 | .02970 | -.01530 | .02970 | -.11710 |
| .598 | .598 | .03400 | .01020 | .00000 | .03960 | -.02380 | .03960 | -.12540 |
| .598 | 1.108 | .02550 | .01020 | .00000 | .03960 | -.01530 | .03960 | -.15000 |
| .598 | 2.134 | .03400 | .01020 | .00000 | .03960 | -.02380 | .03960 | -.18280 |
| .598 | 3.171 | .02550 | .01020 | .00000 | .04950 | -.01530 | .04950 | -.22650 |
| .598 | 4.216 | .03400 | .01020 | .00000 | .04950 | -.02380 | .04950 | -.31390 |
| .598 | 6.276 | .03400 | .01020 | .00000 | .05940 | -.02380 | .05940 | -.19370 |
| .598 | 8.344 | .04250 | .01020 | .00000 | .05940 | -.03230 | .05940 | -.20320 |
| .598 | GRADIENT | .00108 | .00000 | .00000 | .00371 | -.00108 | .00371 | -.01694 |

RUN NO. 574/ 0 RN/L = 4.91 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|--------|--------|---------|--------|---------|---------|
| .902 | -6.159 | .00850 | .01020 | .01150 | .03960 | .00170 | .02810 | -.22650 |
| .899 | -2.028 | .00850 | .01020 | .01150 | .03960 | .00170 | .02810 | -.31390 |
| .900 | -.982 | .00850 | .01020 | .02300 | .03960 | .00170 | .01660 | -.12540 |
| .900 | .071 | .00850 | .01020 | .02300 | .03960 | .00170 | .01660 | -.16090 |
| .900 | .586 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.19370 |
| .900 | 1.102 | .00850 | .01020 | .02300 | .02970 | .00170 | .00670 | -.17190 |
| .900 | 2.140 | .00850 | .01020 | .02300 | .03960 | .00170 | .01660 | -.21560 |
| .899 | 3.188 | .00850 | .01020 | .02300 | .02970 | .00170 | .00670 | -.20460 |
| .900 | 4.242 | .00850 | .01020 | .02300 | .03960 | .00170 | .01660 | -.19370 |
| .899 | 6.326 | .00850 | .01020 | .02300 | .02970 | .00170 | .00670 | -.18280 |
| .899 | 8.412 | .00850 | .01020 | .02300 | .02970 | .00170 | .00670 | -.23740 |
| .899 | GRADIENT | -.00000 | .00000 | .00132 | -.00057 | .00000 | -.00188 | .00497 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

(DEF0A3) (08 JUL 77)

AMES 118-1-11 0A145A 01

PARAMETRIC DATA

ALPHA = 15.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 55.000 RUDDER = .000
 RN/L = 5.000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 555/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRML |
|------|----------|--------|--------|--------|--------|---------|--------|---------|
| .952 | -6.184 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -.20110 |
| .951 | -2.046 | .02550 | .01020 | .02300 | .02970 | -.01530 | .00670 | -.10070 |
| .948 | -.996 | .02550 | .01020 | .02300 | .02970 | -.01530 | .00670 | -.13360 |
| .950 | .059 | .02550 | .01020 | .02300 | .02970 | -.01530 | .00670 | -.14180 |
| .947 | .575 | .02550 | .01020 | .02300 | .02970 | -.01530 | .00670 | -.14180 |
| .948 | 1.094 | .02550 | .01020 | .02300 | .02970 | -.01530 | .00670 | -.15000 |
| .949 | 2.134 | .02550 | .01020 | .02300 | .02970 | -.01530 | .00670 | -.15000 |
| .947 | 3.182 | .02550 | .01020 | .02300 | .02970 | -.01530 | .00670 | -.15000 |
| .948 | 4.237 | .02550 | .01020 | .02300 | .02970 | -.01530 | .00670 | -.13360 |
| .947 | 6.325 | .02550 | .01020 | .02300 | .02970 | -.01530 | .00670 | -.14180 |
| .943 | 8.412 | .02550 | .01020 | .02300 | .02970 | -.01530 | .00670 | -.00635 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | -.00000 | .00000 | |

RUN NO. 546/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRML |
|-------|----------|--------|--------|--------|--------|---------|--------|---------|
| 1.201 | -6.184 | .01700 | .01020 | .02300 | .03960 | -.00680 | .01660 | -.12540 |
| 1.201 | -2.055 | .01700 | .01020 | .02300 | .04950 | -.00680 | .02650 | -.14180 |
| 1.199 | -1.005 | .01700 | .01020 | .02300 | .04950 | -.00680 | .02650 | -.14180 |
| 1.200 | .050 | .01700 | .01020 | .02300 | .04950 | -.00680 | .02650 | -.15000 |
| 1.200 | .569 | .01700 | .01020 | .02300 | .04950 | -.00680 | .02650 | -.15000 |
| 1.200 | 1.096 | .01700 | .01020 | .02300 | .04950 | -.01530 | .02650 | -.15000 |
| 1.200 | 2.141 | .02550 | .01020 | .02300 | .04950 | -.01530 | .02650 | -.13360 |
| 1.200 | 3.186 | .02550 | .01020 | .02300 | .04950 | -.01530 | .02650 | -.11710 |
| 1.199 | 4.240 | .02550 | .01020 | .03450 | .04950 | -.03230 | .01500 | -.10890 |
| 1.198 | 6.333 | .04250 | .01020 | .02300 | .04950 | -.05780 | .02650 | -.11710 |
| 1.198 | 8.412 | .06800 | .01020 | .02300 | .04950 | -.00178 | .00000 | .00320 |
| | GRADIENT | .00178 | .00000 | .00000 | .00000 | -.00178 | .00000 | |

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OAI45 TABULATED FORCE DATA

PAGE 1501

AVES 118-1-11 OAI45A 01

(02F0A3) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 15.000 ELEVON = .000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BOFLAP = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO RN/L = 55.000 RUDDER = .000
SCALE = .0500

PARAMETRIC DATA

RUN NO. 527/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|---------|--------|---------|---------|
| 1.293 | -6.212 | .00000 | .01020 | .02300 | .00990 | .01020 | -.01310 | -.15000 |
| 1.296 | -2.058 | .00000 | .01020 | .02300 | .00990 | .01020 | -.01310 | -.15000 |
| 1.297 | -1.003 | .00000 | .01020 | .02300 | .00990 | .01020 | -.01310 | -.15000 |
| 1.296 | .066 | .00000 | .01020 | .02300 | .00990 | .01020 | -.01310 | -.15000 |
| 1.296 | .578 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -.15000 |
| 1.296 | 1.106 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -.15000 |
| 1.295 | 2.155 | .00000 | .01020 | .02300 | .00000 | .01020 | -.01310 | -.15000 |
| 1.295 | 3.205 | .00000 | .01020 | .02300 | .00990 | .01020 | -.02300 | -.15000 |
| 1.295 | 4.272 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -.15000 |
| 1.293 | 6.366 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -.15000 |
| 1.294 | 8.457 | .00850 | .01020 | .02300 | .00000 | .00170 | -.02300 | -.15000 |
| | GRADIENT | .00000 | .00000 | .00000 | -.00120 | .00000 | -.00125 | -.00000 |

RUN NO. 524/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|---------|---------|---------|---------|---------|
| 1.396 | -6.145 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.14180 |
| 1.399 | -1.957 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.16090 |
| 1.398 | -.875 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.16090 |
| 1.398 | .201 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.17190 |
| 1.397 | .722 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.17190 |
| 1.396 | 1.267 | .00000 | .01020 | .01150 | .00990 | .01020 | -.00160 | -.17190 |
| 1.396 | 2.347 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.18280 |
| 1.396 | 3.413 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.19370 |
| 1.396 | 4.461 | .00000 | .01020 | .01150 | .00990 | .01020 | -.00160 | -.20460 |
| 1.393 | 6.552 | .00850 | .01020 | .01150 | .00990 | .00170 | -.00160 | -.22650 |
| 1.394 | 8.566 | .02550 | .02040 | .01150 | .00990 | -.00510 | -.00160 | -.23740 |
| | GRADIENT | .00086 | .00000 | -.00000 | -.00102 | -.00086 | -.00102 | -.00696 |

(02F0A4) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = .000 BETA = .000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 AILRON = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO BDFLAP = .000 SPDBRK = 55.000
SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

| RUN NO. 593/ 0 | | RN/L = 4.95 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|--------|---------------------------------|--------|
| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI |
| .598 | -14.970 | .00850 | .01020 | .00000 | .04950 |
| .598 | -10.771 | .00850 | .01020 | .00000 | .04950 |
| .598 | -4.924 | .00850 | .01020 | .01150 | .04950 |
| .598 | -2.442 | .00850 | .01020 | .01150 | .04950 |
| .598 | -1.123 | .01700 | .01020 | .01150 | .05940 |
| .598 | 2.479 | .00850 | .01020 | .01150 | .06930 |
| .598 | 4.996 | .00850 | .01020 | .01150 | .07920 |
| .598 | 10.051 | .01700 | .01020 | .01150 | .08910 |
| .598 | 15.022 | .01700 | .01020 | .01150 | .03960 |
| .598 | 18.116 | .00850 | .01020 | .01150 | .03960 |
| .598 | 22.658 | .01700 | .01020 | .01150 | .04950 |
| | GRADIENT | -.00002 | .00000 | .00000 | .00320 |

DELTA
-18.04400
-13.04900
-5.99180
-2.97460
-.15000
3.01920
6.07880
12.18500
18.10500
21.73100
26.95700
1.21704

| RUN NO. 577/ 0 | | RN/L = 4.99 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|--------|---------------------------------|---------|
| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI |
| .798 | -14.940 | .01700 | .01020 | .01150 | .02970 |
| .799 | -10.709 | .01700 | .01020 | .01150 | .02970 |
| .799 | -4.961 | .01700 | .01020 | .01150 | .02970 |
| .799 | -2.459 | .01700 | .01020 | .01150 | .02970 |
| .800 | -1.103 | .01700 | .01020 | .01150 | .02970 |
| .800 | 2.505 | .01700 | .01020 | .01150 | .02970 |
| .799 | 4.996 | .01700 | .01020 | .01150 | .02970 |
| .799 | 10.027 | .01700 | .01020 | .01150 | .02970 |
| .800 | 14.996 | .01700 | .01020 | .01150 | .02970 |
| .799 | 18.107 | .01700 | .01020 | .01150 | .02970 |
| .798 | 22.818 | .01700 | .01020 | .01150 | .02970 |
| | GRADIENT | -.00000 | .00000 | -.00000 | -.00000 |

DELTA
-18.00800
-12.97400
-6.03730
-2.99440
-.12540
3.05070
6.07880
12.15600
18.07400
21.72100
27.13800
1.21704

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = .000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 AILRON = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO BDFLAP = .000 SPDBRK = 55.000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 571/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|---------|--------|--------|---------|--------|-----------|
| .900 | -14.970 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -18.04400 |
| .901 | -10.754 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -13.02800 |
| .901 | -4.947 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -6.01910 |
| .900 | -2.418 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -2.94490 |
| .901 | -.089 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -.10890 |
| .899 | 2.513 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | 3.06120 |
| .900 | 5.014 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | 6.10130 |
| .900 | 10.011 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | 12.13700 |
| .900 | 15.014 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | 18.09500 |
| .899 | 18.143 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | 21.76200 |
| .900 | 19.608 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | 23.46100 |
| | GRADIENT | .00000 | -.00000 | .00000 | .00000 | .00000 | .00000 | 1.21728 |

RUN NO. 558/ 0 RN/L = 4.37 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|---------|---------|--------|---------|--------|-----------|
| .951 | -14.970 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -18.04400 |
| .952 | -10.762 | .00000 | .01020 | .02300 | .03960 | .01020 | .01660 | -13.03800 |
| .951 | -4.961 | .00000 | .01020 | .02300 | .02970 | .01020 | .00670 | -6.03730 |
| .951 | -2.426 | .00000 | .01020 | .02300 | .02970 | .01020 | .00670 | -2.95480 |
| .950 | -.096 | .00000 | .01020 | .02300 | .02970 | .01020 | .00670 | -.11710 |
| .951 | 2.488 | .00000 | .01020 | .01150 | .03960 | .01020 | .02810 | 3.02970 |
| .951 | 5.024 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | 6.11260 |
| .951 | 10.027 | .00000 | .01020 | .02300 | .02970 | .01020 | .00670 | 12.15600 |
| .951 | 15.022 | .00000 | .01020 | .02300 | .02970 | .01020 | .00670 | 18.10500 |
| .950 | 18.125 | .00000 | .01020 | .02300 | .03960 | .01020 | .01660 | 21.74200 |
| .951 | 22.771 | .00000 | .01020 | .02300 | .03960 | .01020 | .01660 | 27.08500 |
| | GRADIENT | .00000 | -.00000 | -.00141 | .00121 | -.00000 | .00263 | 1.21726 |

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OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(D2FOA4) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

ALPHA = .000 BETA = .000
ELEVON = .000 AILRON = .000
BOFLAP = .000 SPDBRK = 55.000
RN/L = 5.000

PARAMETRIC DATA

RUN NO. 543/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|--------|--------|--------|-----------|
| 1.201 | -14.976 | .00000 | .00000 | .01150 | .03960 | .00000 | .02810 | -18.05000 |
| 1.203 | -10.745 | .00000 | .00000 | .01150 | .03960 | .00000 | .02810 | -13.01700 |
| 1.201 | -4.939 | .00000 | .00000 | .01150 | .03960 | .00000 | .02810 | -6.01000 |
| 1.201 | -2.434 | .00000 | .00000 | .01150 | .03960 | .00000 | .02810 | -2.96470 |
| 1.201 | -1.116 | .00000 | .01020 | .01150 | .03960 | .01020 | .02810 | -1.14180 |
| 1.202 | 2.531 | .00000 | .01020 | .01150 | .03960 | .01020 | .02810 | 3.08210 |
| 1.201 | 5.014 | .00000 | .01020 | .01150 | .03960 | .01020 | .02810 | 6.10130 |
| 1.201 | 10.035 | .00000 | .01020 | .02300 | .03960 | .01020 | .01660 | 12.16600 |
| 1.201 | 15.031 | .00000 | .01020 | .02300 | .03960 | .01020 | .01660 | 18.11600 |
| 1.201 | 18.125 | .00000 | .01020 | .02300 | .03960 | .01020 | .01660 | 21.74200 |
| 1.201 | 22.649 | .00000 | .01020 | .02300 | .03960 | .01020 | .01660 | 26.94600 |
| 1.201 | GRADIENT | .00000 | .00163 | .00000 | .00000 | .00163 | .00000 | 1.21727 |

AMES 118-1-11 OAI45A 01

(D2FOA5) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

ALPHA = 5.000 BETA = .000
ELEVON = .000 AILRON = .000
BOFLAP = .000 SPDBRK = 55.000
RN/L = 5.000

PARAMETRIC DATA

RUN NO. 584/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|---------|---------|--------|-----------|
| .597 | -14.976 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -18.05000 |
| .598 | -10.762 | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | -13.03800 |
| .599 | -4.947 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -6.01910 |
| .599 | -2.434 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -2.96470 |
| .599 | -2.13 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -2.25930 |
| .598 | 2.022 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | 2.46290 |
| .598 | 5.014 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | 6.10130 |
| .598 | 9.995 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | 12.11800 |
| .598 | 15.031 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | 18.11600 |
| .597 | 18.125 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | 21.74200 |
| .598 | 22.846 | .00850 | .01020 | .00000 | .02970 | .00170 | .02970 | 27.17000 |
| .598 | GRADIENT | .00000 | .00000 | .00000 | -.00000 | .00000 | .00000 | 1.21724 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELEVON = .000 AILRON = .000
BDFLAP = .000 SPOBRK = 55.000
RN/L = 5.000

RUN NO. 583/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH
.800
.799
.799
.800
.798
.800
.799
.801
.799
.800
.799

RUDDER
-14.935
-10.762
-4.954
-2.426
-1.103
2.513
4.986
10.027
15.005
18.107
22.846
GRADIENT

ELV-LO .00850
ELV-LI .01020
ELV-RO .01150
ELV-RI .02970
DELL .00170
DELR .01820
DRHL -18.00200
-13.03600
-6.02620
-2.95480
-.12540
3.06120
6.06750
12.15600
18.08500
21.72100
27.17000
1.21704

RUN NO. 568/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH
.900
.900
.899
.901
.900
.899
.900
.900
.899
.900

RUDDER
-14.976
-10.745
-4.939
-2.426
-.096
2.531
4.968
10.011
15.014
18.143
22.818
GRADIENT

ELV-LO .00850
ELV-LI .01020
ELV-RO .01150
ELV-RI .02970
DELL .00170
DELR .01820
DRHL -18.05000
-13.01700
-6.01000
-2.95480
-.11710
3.08210
6.04510
12.13700
18.09500
21.76200
27.13800
1.21705

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(02FOA5) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

ALPHA = 5.000 BETA = .000
ELEVON = .000 AIRLON = .000
BDFLAP = .000 SPOBRK = 55.000
RN/L = 5.000

PARAMETRIC DATA

RUN NO. 562/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|---------|--------|---------|--------|---------|-----------|
| .951 | -14.965 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -18.03800 |
| .951 | -10.727 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -12.99500 |
| .950 | -4.947 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -6.01910 |
| .949 | -2.459 | .00850 | .01020 | .01150 | .03960 | .00170 | .02810 | -2.99440 |
| .950 | -.096 | .00850 | .01020 | .01150 | .03960 | .00170 | .02810 | -.11710 |
| .951 | 2.505 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | 3.05070 |
| .951 | 5.024 | .00850 | .01020 | .01150 | .03960 | .00170 | .02810 | 6.11260 |
| .951 | 10.027 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | 12.15600 |
| .950 | 15.005 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | 18.08500 |
| .949 | 18.134 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | 21.75200 |
| .951 | 22.780 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | 27.09500 |
| | GRADIENT | .00000 | -.00000 | .00000 | -.00002 | .00000 | -.00002 | 1.21728 |

RUN NO. 541/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|---------|--------|--------|--------|-----------|
| 1.201 | -14.976 | .00000 | .00000 | .01150 | .03960 | .00000 | .02810 | -18.05000 |
| 1.202 | -10.745 | .00000 | .00000 | .01150 | .03960 | .00000 | .02810 | -13.01700 |
| 1.202 | -4.954 | .00000 | .00000 | .01150 | .03960 | .00000 | .02810 | -6.02820 |
| 1.201 | -2.434 | .00000 | .00000 | .01150 | .03960 | .00000 | .02810 | -2.96470 |
| 1.201 | -.751 | .00000 | .00000 | .01150 | .03960 | .00000 | .02810 | -.91490 |
| 1.200 | -.103 | .00000 | .00000 | .01150 | .03960 | .00000 | .02810 | -.12540 |
| 1.202 | 2.513 | .00000 | .01020 | .01150 | .03960 | .00000 | .02810 | 3.06120 |
| 1.201 | 5.005 | .00000 | .01020 | .01150 | .03960 | .01020 | .02810 | 6.09000 |
| 1.202 | 10.027 | .00000 | .01020 | .01150 | .03960 | .01020 | .02810 | 12.15600 |
| 1.202 | 15.014 | .00000 | .01020 | .01150 | .03960 | .01020 | .02810 | 18.09500 |
| 1.201 | 18.134 | .00000 | .00000 | .01150 | .03960 | .00000 | .02810 | 21.75200 |
| 1.201 | 22.677 | .00000 | .00000 | .01150 | .03960 | .00000 | .02810 | 26.97800 |
| 1.200 | GRADIENT | .00000 | .00000 | -.00000 | .00000 | .00000 | .00000 | 1.21726 |

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OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(D2F0A5) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 AILRON = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO BOFLAP = .000 SPDBRK = 55.000
SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 529/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|--------|--------|---------|-----------|
| 1.305 | -14.752 | .00000 | .02040 | .02300 | .00000 | .02040 | -.02300 | -17.78600 |
| 1.301 | -10.691 | .00000 | .02040 | .02300 | .00000 | .02040 | -.02300 | -12.95200 |
| 1.299 | -5.359 | .00000 | .02040 | .02300 | .00000 | .02040 | -.02300 | -6.51910 |
| 1.299 | -2.751 | .00000 | .02040 | .02300 | .00000 | .02040 | -.02300 | -3.35080 |
| 1.297 | -.141 | .00000 | .02040 | .02300 | .00000 | .02040 | -.02300 | -1.7190 |
| 1.299 | 2.333 | .00000 | .02040 | .02300 | .00000 | .02040 | -.02300 | 2.84100 |
| 1.299 | 4.802 | .00000 | .02040 | .02300 | .00000 | .02040 | -.02300 | 5.84310 |
| 1.299 | 9.756 | .00000 | .02040 | .02300 | .00000 | .02040 | -.02300 | 11.83100 |
| 1.299 | 14.582 | .00000 | .02040 | .02300 | .00000 | .02040 | -.02300 | 17.58600 |
| 1.299 | 18.061 | .00000 | .02040 | .02300 | .00000 | .02040 | -.02300 | 21.66600 |
| 1.298 | 22.399 | .00000 | .02040 | .02300 | .00000 | .02040 | -.02300 | 26.66200 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | 1.21735 |

RUN NO. 520/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|---------|--------|---------|---------|---------|-----------|
| 1.403 | -14.736 | .00000 | .02040 | .02300 | .01980 | .02040 | -.00320 | -17.78600 |
| 1.403 | -10.727 | .00000 | .02040 | .02300 | .01980 | .02040 | -.00320 | -12.99500 |
| 1.405 | -5.388 | .00000 | .01020 | .02300 | .01980 | .01020 | -.00320 | -6.55550 |
| 1.404 | -2.784 | .00000 | .01020 | .02300 | .01980 | .01020 | -.00320 | -3.39040 |
| 1.404 | -.123 | .00000 | .02040 | .02300 | .01980 | .02040 | -.00320 | -1.15000 |
| 1.404 | 2.367 | .04250 | .01020 | .02300 | .00990 | -.03230 | -.01310 | 2.88290 |
| 1.404 | 4.792 | .04250 | .01020 | .02300 | .01980 | -.03230 | -.00320 | 5.83160 |
| 1.404 | 9.724 | .04250 | .01020 | .02300 | .01980 | -.03230 | -.00320 | 11.79200 |
| 1.404 | 14.556 | .04250 | .01020 | .02300 | .01980 | -.03230 | -.00320 | 17.55400 |
| 1.404 | 18.116 | .04250 | .01020 | .02300 | .01980 | -.03230 | -.00320 | 21.73100 |
| 1.403 | 22.335 | .04250 | .01020 | .02300 | .01980 | -.03230 | -.00320 | 26.58900 |
| | GRADIENT | .00672 | -.00038 | .00000 | -.00041 | -.00710 | -.00041 | 1.21732 |

0A145 TABULATED FORCE DATA

AMES 118-1-11 0A145A 01

(02F0A5) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 10.000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 AILRON = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO BDFLAP = .000 SPDBRK = 55.000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 594/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|---------|---------|--------|--------|-----------|
| .599 | -14.993 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -18.07000 |
| .597 | -10.736 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -13.00600 |
| .597 | -4.932 | .00000 | .01020 | .01150 | .03960 | .01020 | .02810 | -6.00090 |
| .597 | -2.426 | .00000 | .01020 | .01150 | .03960 | .01020 | .02810 | -2.95480 |
| .597 | -1.103 | .00000 | .01020 | .01150 | .03960 | .01020 | .02810 | -1.12540 |
| .597 | 2.496 | .00000 | .01020 | .01150 | .03960 | .01020 | .02810 | 3.04020 |
| .597 | 4.996 | .00000 | .01020 | .01150 | .03960 | .01020 | .02810 | 6.07880 |
| .597 | 10.003 | .00000 | .01020 | .01150 | .04950 | .01020 | .03800 | 12.12800 |
| .597 | 15.005 | .00000 | .01020 | .01150 | .04950 | .01020 | .03800 | 18.08500 |
| .598 | 18.107 | .00000 | .01020 | .01150 | .04950 | .01020 | .03800 | 21.72100 |
| .598 | 22.780 | .00000 | .01020 | .01150 | .04950 | .01020 | .03800 | 27.09500 |
| .599 | GRADIENT | .00000 | .00000 | -.00000 | -.00000 | .00000 | .00000 | 1.21705 |

RUN NO. 578/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|---------|---------|-----------|
| .798 | -14.976 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -18.05000 |
| .799 | -10.727 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -12.99500 |
| .798 | -4.932 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -6.00090 |
| .799 | -2.434 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -2.96470 |
| .799 | -.096 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -1.11710 |
| .799 | 2.496 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | 3.04020 |
| .799 | 5.014 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | 6.10130 |
| .797 | 10.027 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | 12.15600 |
| .798 | 15.014 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | 18.09500 |
| .798 | 18.107 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | 21.72100 |
| .798 | 22.818 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | 27.13800 |
| .799 | GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | -.00000 | 1.21729 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000 BETA = .000
ELEVON = .000 AIRRON = .000
BDFLAP = .000 SPOBRK = 55.000
RN/L = 5.000

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 570/ 0 RN/L = 4.94

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|--------|--------|--------|---------|---------|---------|-----------|
| .899 | -14.970 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -18.04400 |
| .901 | -10.745 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -13.01700 |
| .900 | -4.961 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -6.03730 |
| .902 | -2.418 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -2.94490 |
| .902 | -1.103 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.12540 |
| .899 | 2.522 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | 3.07160 |
| .901 | 4.996 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | 6.07880 |
| .900 | 10.011 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | 12.13700 |
| .901 | 15.014 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | 16.09500 |
| .901 | 18.107 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | 21.72100 |
| .900 | 22.818 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | 27.13800 |
| GRADIENT | | .00000 | .00000 | .00000 | -.00000 | .00000 | -.00000 | 1.21703 |

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 559/ 0 RN/L = 4.98

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|---------|--------|---------|--------|---------|--------|-----------|
| .952 | -14.965 | .00850 | .01020 | .02300 | .02970 | .00170 | .00670 | -18.03800 |
| .950 | -10.727 | .00850 | .01020 | .02300 | .02970 | .00170 | .00670 | -12.99500 |
| .952 | -4.961 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -6.03730 |
| .951 | -2.451 | .00850 | .01020 | .02300 | .02970 | .00170 | .00670 | -2.98450 |
| .951 | -.089 | .00850 | .01020 | .02300 | .02970 | .00170 | .01820 | -.110890 |
| .952 | 2.505 | .00000 | .01020 | .01150 | .02970 | .01020 | .00670 | 3.05070 |
| .951 | 5.005 | .00850 | .01020 | .02300 | .02970 | .00170 | .00670 | 6.09000 |
| .952 | 10.011 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | 12.13700 |
| .951 | 15.005 | .00850 | .01020 | .02300 | .02970 | .00170 | .00670 | 18.08500 |
| .950 | 18.107 | .01700 | .01020 | .02300 | .02970 | -.00680 | .00670 | 21.72100 |
| .950 | 22.855 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | 27.18100 |
| GRADIENT | | -.00001 | .00000 | -.00002 | .00000 | .00001 | .00002 | 1.21727 |

QA145 TABULATED FORCE DATA

AMES 118-1-11 0A145A 01

DATE 10 MAR 80

REFERENCE DATA

| | | | | | | | | | | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|-----|----|---|---------|--------|---|--------|--------|---|---------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. | X0 | = | 10.0000 | ALPHA | = | .0000 | BETA | = | .0000 |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. | Y0 | = | .0000 | ELEVON | = | .0000 | AILRON | = | .0000 |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. | Z0 | = | .0000 | BOFLAP | = | .0000 | SPDBRK | = | 55.0000 |
| SCALE | = | .0500 | | | | | | | | | RN/L | = | 5.0000 | | | |

PARAMETRIC DATA

| | | | | | | |
|---------|--------|--------|------|---------------------|--------|------|
| BIN NO. | 544/ 0 | RN/L = | 5.00 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|---------|--------|--------|------|---------------------|--------|------|

| MACH | RUDDER | ELV-L0 | ELV-L1 | ELV-R0 | ELV-R1 | DELL | DELR | DRHL |
|--------|---------|--------|----------|--------|--------|----------|--------|-----------|
| 1.203 | -14.955 | .0000 | .01020 | .02300 | .03960 | .01020 | .01660 | -18.03800 |
| 1.203 | 10.754 | .0000 | .01020 | .02300 | .03960 | .01020 | .01660 | -13.02800 |
| 1.203 | -4.954 | .0000 | .01020 | .02300 | .03960 | .01020 | .01660 | -6.02820 |
| 1.202 | -2.751 | .0000 | .01020 | .02300 | .03960 | .01020 | .01660 | -2.98450 |
| 1.202 | -1.096 | .0000 | .00000 | .02300 | .03960 | .00000 | .01660 | -1.1710 |
| 1.203 | 2.522 | .0000 | .01020 | .02300 | .03960 | .01020 | .01660 | 3.07160 |
| 1.201 | 5.024 | .0000 | .01020 | .02300 | .03960 | .01020 | .01660 | 6.11260 |
| 1.201 | 10.027 | .0000 | .01020 | .02300 | .03960 | .01020 | .01660 | 12.15600 |
| 1.201 | 15.005 | .0000 | .01020 | .02300 | .03960 | .01020 | .01660 | 18.08500 |
| 1.200 | 18.143 | .0000 | .01020 | .02300 | .03960 | .01020 | .01660 | 21.76200 |
| 1.202 | 22.677 | .0000 | .00000 | .02300 | .03960 | .01020 | .01660 | 26.97800 |
| CRUISE | | .0000 | - .00038 | .00000 | .00000 | - .00038 | .00000 | 1.21726 |

| | | | | | | |
|--------|--------|--------|------|---------------------|--------|------|
| BMN NO | 528/ 0 | RN/L = | 5.03 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|--------|--------|--------|------|---------------------|--------|------|

[illegible]

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

(02F0A6) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 10.000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 AILRON = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO BOFLAP = .000 SPDBRK = 55.000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 521/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|--------|---------|---------|-----------|
| 1.396 | -14.752 | .03400 | .01020 | .02300 | .01980 | -.02380 | -.00320 | -17.78600 |
| 1.398 | -10.682 | .03400 | .01020 | .02300 | .01980 | -.02380 | -.00320 | -12.94200 |
| 1.400 | -5.351 | .03400 | .01020 | .02300 | .01980 | -.02380 | -.00320 | -6.51000 |
| 1.402 | -2.751 | .03400 | .01020 | .02300 | .01980 | -.02380 | -.00320 | -3.35000 |
| 1.402 | -.141 | .04250 | .01020 | .02300 | .01980 | -.03230 | -.00320 | -1.7190 |
| 1.402 | 2.358 | .03400 | .01020 | .02300 | .01980 | -.02380 | -.00320 | 2.87240 |
| 1.402 | 4.820 | .04250 | .01020 | .02300 | .01980 | -.03230 | -.00320 | 5.86550 |
| 1.402 | 9.692 | .03400 | .01020 | .02300 | .01980 | -.02380 | -.00320 | 11.75400 |
| 1.402 | 14.521 | .04250 | .01020 | .02300 | .01980 | -.03230 | -.00320 | 17.51300 |
| 1.402 | 18.080 | .04250 | .01020 | .02300 | .01980 | -.03230 | -.00320 | 21.68900 |
| 1.402 | 22.427 | .04250 | .01020 | .02300 | .01980 | -.03230 | -.00320 | 26.69400 |
| 1.402 | GRADIENT | .00068 | .00000 | .00000 | .00000 | -.00068 | -.00000 | 1.21733 |

(02F0A7) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 15.000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 AILRON = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO BOFLAP = .000 SPDBRK = 55.000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 545/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|---------|---------|--------|-----------|
| 1.196 | -14.960 | .01700 | .00000 | .02300 | .04950 | -.01700 | .02650 | -18.03200 |
| 1.203 | -10.745 | .01700 | .00000 | .01150 | .04950 | -.01700 | .03800 | -13.01700 |
| 1.202 | -4.932 | .01700 | .00000 | .02300 | .04950 | -.01700 | .02650 | -6.00090 |
| 1.202 | -2.434 | .01700 | .01020 | .02300 | .04950 | -.00680 | .02650 | -2.96470 |
| 1.201 | -.103 | .01700 | .01020 | .02300 | .04950 | -.00680 | .02650 | -.12540 |
| 1.199 | 2.522 | .01700 | .00000 | .02300 | .04950 | -.00680 | .02650 | 3.07160 |
| 1.202 | 5.024 | .01700 | .00000 | .02300 | .04950 | -.01700 | .02650 | 6.11260 |
| 1.200 | 10.019 | .01700 | .01020 | .02300 | .04950 | -.00680 | .02650 | 12.14700 |
| 1.202 | 15.014 | .01700 | .01020 | .02300 | .04950 | -.00680 | .02650 | 18.09500 |
| 1.198 | 18.116 | .01700 | .01020 | .02300 | .04950 | -.00680 | .02650 | 21.73100 |
| 1.200 | 22.686 | .01700 | .01020 | .02300 | .04950 | -.00680 | .02650 | 26.98900 |
| 1.200 | GRADIENT | .00000 | .00124 | .00000 | -.00000 | .00124 | .00000 | 1.21727 |

OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

DATE 10 MAR 80

(02F0A7) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

ALPHA = 15.000
ELEVON = .000
BDFLAP = .000
RN/L = 5.000

BETA = .000
AILRON = .000
SPDBRK = 55.000

RUN NO. 522/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|---------|---------|---------|---------|-----------|
| 1.393 | -14.731 | .03400 | .00000 | .02300 | .01980 | -.03400 | -.00320 | -17.76100 |
| 1.394 | -10.691 | .03400 | .00000 | .02300 | .01980 | -.03400 | -.00320 | -12.95200 |
| 1.397 | -5.381 | .03400 | .00000 | .02300 | .01980 | -.03400 | -.00320 | -6.54640 |
| 1.399 | -2.776 | .03400 | .00000 | .02300 | .01980 | -.03400 | -.00320 | -3.38050 |
| 1.398 | -.076 | .03400 | .00000 | .02300 | .01980 | -.03400 | -.00320 | -.09250 |
| 1.398 | 2.350 | .03400 | .00000 | .02300 | .01980 | -.03400 | -.00320 | 2.86190 |
| 1.398 | 4.848 | .04250 | .01020 | .02300 | .01980 | -.03230 | -.00320 | 5.89920 |
| 1.398 | 9.708 | .04250 | .01020 | .02300 | .01980 | -.03230 | -.00320 | 11.77300 |
| 1.398 | 14.547 | .04250 | .01020 | .02300 | .01980 | -.03230 | -.00320 | 17.54400 |
| 1.398 | 18.089 | .05100 | .01020 | .02300 | .01980 | -.04080 | -.00320 | 21.70000 |
| 1.398 | 22.417 | .05100 | .00000 | .02300 | .01980 | -.05100 | -.00320 | 26.68300 |
| 1.398 | GRADIENT | .00100 | .00120 | -.00000 | -.00000 | .00020 | .00000 | 1.21732 |

(02F0A8) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

BETA = .000
AILRON = .000
SPDBRK = 55.000
RUDDER = -5.000

ELEVON = .000
BDFLAP = .000

RUN NO. 586/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|---------|---------|----------|
| .597 | -5.042 | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | -6.00090 |
| .599 | -.062 | .02550 | .01020 | .00000 | .02970 | -.01530 | .02970 | -6.01000 |
| .597 | 2.489 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -6.01910 |
| .597 | 4.986 | .02550 | .01020 | .00000 | .02970 | -.01530 | .02970 | -6.04640 |
| .597 | 6.889 | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | -6.03730 |
| .598 | 8.073 | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | -6.01910 |
| .598 | 10.129 | .00850 | .01020 | .00000 | .02970 | .00170 | .02970 | -6.02820 |
| .597 | 12.168 | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | -6.01910 |
| .598 | 15.201 | .00000 | .00000 | .00000 | .02970 | -.00680 | .02970 | -6.00090 |
| .598 | GRADIENT | .00000 | .00000 | .00002 | .00000 | .00000 | -.00002 | -.00720 |

AMES 118-1-11 0A145A 01

(02F048) (08 JUL 77)

REFERENCE DATA

| | | | | | | | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|--------|--------|---|--------|--------|---|--------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. X0 | BETA | = | .000 | ELEVON | = | .000 |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. Y0 | AIRON | = | .000 | BOFLAP | = | .000 |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. Z0 | SPDRBK | = | 55.000 | RUDDER | = | -5.000 |
| SCALE | = | .0500 | | | | | | RN/L | = | 5.000 | | | |

PARAMETRIC DATA

| | | | | | |
|--------|---|--------|---------|---|--------|
| BETA | = | .000 | ELEVON | = | .000 |
| AILRON | = | .000 | BD/FLAP | = | .000 |
| SPOBRK | = | 55.000 | RUDDER | = | -5.000 |
| RN/L | = | 5.000 | | | |

RUN NO. 580/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|--------|---------|---------|---------|---------|----------|
| .801 | -5.059 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.16090 |
| .799 | -4.714 | .00850 | .01020 | .01150 | .03960 | .00170 | .02810 | -5.99180 |
| .796 | .038 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.15000 |
| .800 | 2.593 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -5.97360 |
| .142 | | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -5.97360 |
| .800 | 7.198 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -5.98270 |
| .798 | 8.227 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -5.97360 |
| .800 | 10.238 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -5.97360 |
| .800 | 12.275 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -5.97360 |
| .799 | 15.268 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -5.98270 |
| GRADIENT | | -.00000 | .00000 | -.00000 | -.00145 | -.00000 | -.00145 | -.15773 |

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RUN NO. 564/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

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| MACH | ALPHA | ELV-LO | ELV-L-1 | ELV-RO | ELV-R-1 | DELL | DELR | DRHL |
|------|----------|---------|---------|--------|---------|---------|--------|----------|
| .901 | -4.349 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -6.03730 |
| .901 | .833 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -6.01910 |
| .900 | 3.474 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -6.01910 |
| .902 | 6.033 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -6.01000 |
| .902 | 8.150 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -6.00090 |
| .899 | 9.146 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -6.01000 |
| .903 | 11.171 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -6.01910 |
| .901 | 13.188 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -6.02820 |
| .901 | 16.220 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -6.03730 |
| | GRADIENT | -.00094 | -.00000 | .00000 | .00000 | .00094 | .00000 | -.00249 |

RUN NO. 561 / 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

(D2F0A8) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDRK = 55.000 RUDDER = -5.000
RN/L = 5.000

RUN NO. 548/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|---------|---------|---------|---------|----------|
| 1.201 | -4.121 | .02550 | .01020 | .03450 | .02970 | -.01530 | -.00480 | -6.02820 |
| 1.198 | .920 | .01700 | .01020 | .02300 | .02970 | -.00680 | .00670 | -6.02820 |
| 1.197 | 3.489 | .01700 | .01020 | .02300 | .02970 | -.00680 | .00670 | -6.02820 |
| 1.197 | 6.139 | .01700 | .01020 | .02300 | .02970 | -.00680 | .00670 | -6.02820 |
| 1.195 | 8.162 | .00850 | .01020 | .02300 | .02970 | .00170 | .01820 | -6.01910 |
| 1.197 | 9.173 | .00850 | .01020 | .01150 | .02970 | .00170 | .00670 | -6.01000 |
| 1.202 | 10.302 | .01700 | .01020 | .02300 | .02970 | -.00680 | .00670 | -6.01000 |
| 1.190 | 12.258 | .01700 | .01020 | .02300 | .02970 | .00170 | .00670 | -6.01000 |
| 1.201 | 15.308 | .00850 | .01020 | .02300 | .02970 | .00170 | .00670 | -6.01000 |
| | GRADIENT | -.00120 | -.00000 | -.00162 | -.00000 | .00120 | .00162 | .00000 |

RUN NO. 532/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|--------|--------|---------|----------|
| 1.297 | -5.122 | .00850 | .02040 | .02300 | .00000 | .01190 | -.02300 | -6.48270 |
| 1.300 | -.086 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -6.48270 |
| 1.298 | 2.488 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -6.63690 |
| 1.298 | 5.125 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -6.67720 |
| 1.294 | 5.709 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -6.67720 |
| 1.296 | 7.165 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -6.66370 |
| 1.296 | 8.157 | .00000 | .02040 | .02300 | .00000 | .02040 | -.02300 | -6.65030 |
| 1.295 | 10.201 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -6.65030 |
| 1.293 | 12.260 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -6.65030 |
| 1.293 | 15.291 | .00000 | .00000 | .02300 | .00000 | .00000 | -.02300 | -6.65030 |
| 1.294 | | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.05991 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 |

RUN NO. 515/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|--------|---------|---------|----------|
| 1.404 | -5.118 | .01700 | .01020 | .02300 | .01980 | -.00680 | -.00320 | -6.52820 |
| 1.410 | .107 | .00850 | .01020 | .02300 | .00990 | .00170 | -.01310 | -6.52820 |
| 1.404 | 2.643 | .00850 | .02040 | .02300 | .00990 | .01190 | -.01310 | -6.52820 |
| 1.401 | 5.104 | .00850 | .01020 | .02300 | .00990 | .00170 | -.01310 | -6.52820 |
| 1.401 | 7.150 | .00000 | .01020 | .02300 | .00990 | .01020 | -.01310 | -6.51910 |
| 1.400 | 8.172 | .00000 | .01020 | .02300 | .00990 | .01020 | -.01310 | -6.51910 |
| 1.396 | 10.241 | .00850 | .01020 | .02300 | .00990 | .00170 | -.01310 | -6.51910 |
| 1.397 | 12.248 | .00000 | .01020 | .02300 | .00990 | .01020 | -.01310 | -6.51910 |
| 1.392 | 15.282 | .00850 | .01020 | .02300 | .00990 | .00170 | -.01310 | -6.50090 |
| | GRADIENT | .00000 | .00402 | .00000 | .00000 | .00402 | .00000 | -.00000 |

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OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(02F0A9) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 ELEVON = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BDFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPBRK = 55.000 RUDDER = -5.000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 587/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|--------|---------|--------|---------|--------|----------|
| .598 | -6.022 | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | -5.97360 |
| .598 | -1.928 | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | -6.01910 |
| .599 | -.889 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -6.01000 |
| .598 | .031 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -6.02820 |
| .598 | .503 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -6.01000 |
| .598 | 1.037 | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | -6.01000 |
| .598 | 2.104 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -6.04640 |
| .597 | 3.144 | .00850 | .01020 | .00000 | .03960 | .00170 | .03960 | -6.03730 |
| .597 | 4.175 | .01700 | .01020 | .01150 | .03960 | -.00680 | .02810 | -6.03730 |
| .597 | 6.227 | .00850 | .01020 | .01150 | .03960 | .00170 | .02810 | -6.05550 |
| | GRADIENT | -.00062 | .00000 | -.00011 | .00215 | .00062 | .00226 | -.00474 |

RUN NO. 581/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|--------|--------|----------|
| .797 | -6.133 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -5.91000 |
| .797 | -2.024 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -5.94640 |
| .799 | -.993 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -5.96450 |
| .799 | .079 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -5.98270 |
| .799 | .521 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -6.01910 |
| .798 | 1.036 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -6.02820 |
| .799 | 2.111 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -6.02820 |
| .799 | 3.155 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -6.06450 |
| .800 | 4.186 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -6.06450 |
| .801 | 6.365 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -6.10090 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.02037 |

RUN NO. 565/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|--------|--------|---------|--------|---------|----------|
| .901 | -6.097 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -5.93730 |
| .900 | -1.960 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -6.01910 |
| .900 | -.926 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -6.03730 |
| .901 | .039 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -6.04640 |
| .901 | .506 | .00850 | .01020 | .01150 | .03960 | .00170 | .02810 | -6.03730 |
| .900 | 1.039 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -6.05550 |
| .899 | 2.110 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -6.05550 |
| .899 | 3.165 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -6.07360 |
| .898 | 4.224 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -6.06450 |
| .898 | 6.299 | .00850 | .01020 | .01150 | .03960 | .00170 | .02810 | -6.01910 |
| | GRADIENT | -.00000 | .00000 | .00000 | -.00017 | .00000 | -.00017 | -.00768 |

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OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(02F0A9) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 55.000 RUDDER = -5.000
 RN/L = 5.000

RUN NO. 557/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|---------|--------|---------|--------|----------|
| .950 | -6.112 | .00850 | .01020 | .02300 | .02970 | .00170 | .00670 | -6.01000 |
| .951 | -1.965 | .00850 | .01020 | .02300 | .02970 | .00170 | .00670 | -6.02820 |
| .947 | -.917 | .00850 | .01020 | .02300 | .02970 | .00170 | .00670 | -6.02820 |
| .950 | .157 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -6.02820 |
| .949 | .638 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -6.02820 |
| .950 | 1.160 | .01700 | .01020 | .02300 | .02970 | -.00680 | .00670 | -6.02820 |
| .948 | 2.214 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -6.03730 |
| .948 | 3.258 | .01700 | .01020 | .01150 | .03960 | -.00680 | .02810 | -6.03730 |
| .950 | 4.295 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -6.04640 |
| .947 | 6.367 | .01700 | .01020 | .02300 | .03960 | -.00680 | .01660 | -6.01910 |
| | GRADIENT | .00180 | .00000 | -.00189 | .00069 | -.00180 | .00258 | -.00286 |

RUN NO. 539/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|--------|--------|---------|---------|----------|
| 1.201 | -6.113 | .00850 | .00000 | .01150 | .03960 | -.00850 | .02810 | -6.11910 |
| 1.199 | -1.946 | .00000 | .01020 | .00000 | .03960 | .01020 | .03960 | -6.15550 |
| 1.199 | -.910 | .00000 | .01020 | .00000 | .03960 | .01020 | .03960 | -6.01000 |
| 1.199 | .034 | -.01010 | .01020 | .01150 | .03960 | .02030 | .02810 | -6.01910 |
| 1.201 | .590 | .01700 | .01020 | .01150 | .03960 | -.00680 | .02810 | -6.01910 |
| 1.199 | 1.075 | .01700 | .01020 | .01150 | .03960 | -.00680 | .02810 | -6.02820 |
| 1.200 | 2.143 | .02550 | .01020 | .01150 | .03960 | -.01530 | .02810 | -6.02820 |
| 1.201 | 3.187 | .03400 | .01020 | .01150 | .03960 | -.02380 | .02810 | -6.03730 |
| 1.201 | 4.231 | .04250 | .00000 | .01150 | .03960 | -.04250 | .02810 | -6.03730 |
| 1.201 | 6.325 | .02550 | .00000 | .01150 | .03960 | -.02550 | .02810 | -6.05550 |
| | GRADIENT | .00797 | -.00108 | .00190 | .00000 | -.00905 | -.00190 | .00948 |

RUN NO. 531/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|--------|---------|---------|----------|
| 1.298 | -6.075 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -6.57360 |
| 1.300 | -1.952 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -6.61000 |
| 1.298 | -.907 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -6.63690 |
| 1.297 | .169 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -6.67720 |
| 1.298 | .639 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -6.69060 |
| 1.298 | 1.165 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -6.69060 |
| 1.296 | 2.220 | .01700 | .01020 | .02300 | .00000 | -.00680 | -.02300 | -6.71750 |
| 1.298 | 3.264 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -6.75770 |
| 1.296 | 4.303 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -6.81150 |
| 1.294 | 6.377 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -6.50090 |
| | GRADIENT | .00061 | .00000 | .00000 | .00000 | -.00061 | .00000 | -.03031 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1517

AMES 118-1-11 0A143A 01

(D2F0A9) (08 JUL 77)

REFERENCE DATA

| | | | | | | | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|-----|----|---|--------|--------|---|--------|
| SREF | = | 2690.0000 | SO.FT. | XMRP | = | 1075.6800 | IN. | XO | = | 5.000 | ELEVON | = | .000 |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. | YO | = | .000 | BOFLAP | = | .000 |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. | ZO | = | 55.000 | RUDDER | = | -5.000 |
| SCALE | = | .0500 | | | | | | | | | RN/L | = | 5.000 |

RUN NO: 516/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|---------|---------|----------|----------|
| 1.406 | 1.112 | .02550 | .02040 | .02300 | .00990 | -.00510 | -.01310 | -6.51000 |
| 1.405 | -1.961 | .02550 | .02040 | .02300 | .00990 | -.00510 | -.01310 | -6.59270 |
| 1.403 | - | .02550 | .02040 | .02300 | .00000 | -.00510 | -.02300 | -6.63690 |
| 1.404 | -.916 | .02550 | .02040 | .02300 | .00990 | -.00510 | -.01310 | -6.66370 |
| 1.403 | .140 | .02550 | .02040 | .02300 | .00990 | -.00510 | -.01310 | -6.66370 |
| 1.402 | .677 | .02550 | .02040 | .02300 | .00990 | -.00510 | -.02300 | -6.70400 |
| 1.403 | 1.175 | .02550 | .02040 | .02300 | .00000 | -.00510 | -.02300 | -6.75770 |
| 1.403 | 2.223 | .02550 | .02040 | .02300 | .00000 | -.01360 | -.01310 | -6.79800 |
| 1.404 | 3.265 | .03400 | .02040 | .02300 | .00990 | -.02210 | -.02300 | -6.85180 |
| 1.402 | 4.316 | .04250 | .02040 | .02300 | .00000 | -.01190 | -.02300 | -6.49180 |
| 1.400 | 6.407 | .00850 | .02040 | .02300 | .00000 | -.00236 | -.020075 | -.04220 |
| | GRADIENT | .00236 | .00000 | .00000 | -.00075 | | | |

REFERENCE DATA

| | | | | | | | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|--------|--------|---|---------|--------|---|----------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. X0 | ALPHA | = | 5.0000 | ELEVON | = | .0000 |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. Y0 | A1LRON | = | .0000 | BDFLAP | = | .0000 |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. Z0 | SPDBRK | = | 55.0000 | RUDDER | = | -22.8000 |
| SCALE | = | .0500 | | | | | | RN/L | = | 5.0000 | | | |

RUN NO. 588/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

(D2F080) (08 JUL 77)

AMES 118-1-11 00145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AIRLON = .000 BOFLAP = .000
 SPDBRK = 55.000 RUDDER = -22.600
 RN/L = 5.000

RUN NO. 566/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|--------|--------|--------|---------|--------|-----------|
| .900 | -6.112 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -27.07700 |
| .900 | -1.916 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -27.07700 |
| .900 | -.870 | .00850 | .01020 | .01150 | .03960 | .00170 | .02810 | -27.08600 |
| .900 | .189 | .00850 | .01020 | .01150 | .03960 | .00170 | .02810 | -27.05800 |
| .900 | .673 | .00850 | .01020 | .01150 | .03960 | .00170 | .02810 | -27.04000 |
| .900 | 1.193 | .00850 | .01020 | .01150 | .03960 | .00170 | .02810 | -27.04000 |
| .900 | 2.244 | .00850 | .01020 | .01150 | .04950 | .00170 | .03800 | -27.04900 |
| .900 | 3.286 | .00850 | .01020 | .01150 | .04950 | .00170 | .03800 | -27.04900 |
| .898 | 4.323 | .00850 | .01020 | .01150 | .04950 | .00170 | .03800 | -27.04900 |
| .895 | 6.391 | .01700 | .01020 | .01150 | .04950 | -.00680 | .03800 | -27.04900 |
| | GRADIENT | -.00000 | .00000 | .00000 | .00308 | .00000 | .00308 | .00572 |

RUN NO. 540/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|---------|--------|---------|--------|-----------|
| 1.201 | -6.095 | .00000 | .00000 | .01150 | .03960 | .00000 | .02810 | -27.06800 |
| 1.202 | -1.922 | .00850 | .00000 | .01150 | .03960 | -.00850 | .02810 | -27.07700 |
| 1.202 | -.885 | .00850 | .00000 | .01150 | .03960 | -.00850 | .02810 | -27.07700 |
| 1.203 | .041 | .00850 | .00000 | .01150 | .03960 | -.00850 | .02810 | -27.01200 |
| 1.203 | .604 | .00850 | .00000 | .01150 | .03960 | -.00850 | .02810 | -27.01200 |
| 1.202 | 1.099 | .00850 | .00000 | .01150 | .03960 | -.00680 | .02810 | -27.05800 |
| 1.201 | 2.161 | .01700 | .01020 | .01150 | .03960 | -.03230 | .02810 | -27.04900 |
| 1.203 | 3.201 | .04250 | .01020 | .01150 | .03960 | -.05780 | .03960 | -27.05800 |
| 1.203 | 4.243 | .06800 | .01020 | .00000 | .03960 | -.01700 | .03960 | -27.05800 |
| 1.199 | 6.336 | .01700 | .00000 | .00000 | .03960 | -.01700 | .03960 | -27.05800 |
| | GRADIENT | .00907 | .00219 | -.00122 | .00000 | -.00688 | .00122 | .00182 |

RUN NO. 517/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|--------|---------|---------|-----------|
| 1.403 | -6.102 | .01700 | .00000 | .02300 | .00000 | -.01700 | -.02300 | -27.15100 |
| 1.404 | -1.942 | .01700 | .00000 | .02300 | .00000 | -.01700 | -.02300 | -27.15100 |
| 1.404 | -.895 | .01700 | .00000 | .02300 | .00990 | -.01700 | -.01310 | -27.15100 |
| 1.404 | .180 | .01700 | .00000 | .02300 | .00990 | -.01700 | -.01310 | -27.15100 |
| 1.404 | .661 | .01700 | .00000 | .02300 | .00990 | -.01700 | -.01310 | -27.15100 |
| 1.402 | 1.182 | .01700 | .00000 | .02300 | .00990 | -.01700 | -.01310 | -27.15100 |
| 1.402 | 2.233 | .02550 | .00000 | .02300 | .00990 | -.02550 | -.01310 | -27.15100 |
| 1.402 | 3.281 | .03400 | .00000 | .02300 | .00990 | -.03400 | -.01310 | -27.15100 |
| 1.402 | 4.328 | .06800 | .01020 | .02300 | .00990 | -.05780 | -.01310 | -27.16000 |
| 1.402 | 6.414 | .00237 | .00000 | .00000 | .00097 | -.00237 | .00097 | -.00094 |
| | GRADIENT | .00237 | .00000 | .00000 | .00097 | -.00237 | .00097 | -.00094 |

OAI45 TABULATED FORCE DATA

ANES 118-1-11 OAI45A 01

DATE 10 MAR 80

(02F081) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDRK = 70.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 753/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|--------|--------|--------|---------|--------|---------|---------|
| .597 | -5.037 | .00000 | .00000 | .00000 | .01980 | .00000 | .01980 | -.14180 |
| .600 | -.088 | .00000 | .00000 | .00000 | .01980 | .00000 | .01980 | -.14180 |
| .599 | 2.394 | .00000 | .00000 | .00000 | .01980 | .00000 | .01980 | -.14180 |
| .597 | 4.864 | .00000 | .00000 | .00000 | .01980 | .00000 | .01980 | -.14180 |
| .598 | 6.938 | .00000 | .00000 | .00000 | .01980 | .00000 | .01980 | -.14180 |
| .597 | 7.964 | .00000 | .00000 | .00000 | .01980 | .00000 | .01980 | -.13360 |
| .596 | 10.010 | .00000 | .00000 | .00000 | .01980 | .00000 | .01980 | -.14180 |
| .595 | 12.050 | .00000 | .00000 | .00000 | .01980 | .00000 | .01980 | -.13360 |
| .597 | 15.054 | .00000 | .00000 | .00000 | .01980 | .00000 | .01980 | -.14180 |
| GRADIENT | | .00000 | .00000 | .00000 | -.00000 | .00000 | -.00000 | .00000 |

RUN NO. 752/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|--------|--------|--------|---------|--------|---------|---------|
| .799 | -5.078 | .00000 | .00000 | .00000 | .01980 | .00000 | .01980 | -.12540 |
| .803 | -.271 | .00000 | .00000 | .00000 | .01980 | .00000 | .01980 | -.12540 |
| .800 | 2.417 | .00000 | .00000 | .00000 | .01980 | .00000 | .01980 | -.14180 |
| .798 | 4.893 | .00000 | .00000 | .00000 | .01980 | .00000 | .01980 | -.12540 |
| .798 | 6.970 | .00000 | .00000 | .00000 | .01980 | .00000 | .01980 | -.12540 |
| .798 | 8.022 | .00000 | .00000 | .00000 | .01980 | .00000 | .01980 | -.13360 |
| .798 | 10.044 | .00000 | .00000 | .00000 | .01980 | .00000 | .01980 | -.13360 |
| .799 | 12.085 | .00000 | .00000 | .00000 | .01980 | .00000 | .01980 | -.13360 |
| .799 | 15.069 | .00000 | .00000 | .00000 | .01980 | .00000 | .01980 | -.14180 |
| GRADIENT | | .00000 | .00000 | .00000 | -.00000 | .00000 | -.00000 | -.00009 |

RUN NO. 748/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|--------|--------|--------|--------|---------|---------|---------|
| .900 | -5.085 | .00000 | .02040 | .02300 | .01980 | .02040 | -.00320 | -.11710 |
| .901 | -.083 | .00000 | .02040 | .02300 | .01980 | .02040 | -.00320 | -.11710 |
| .900 | 2.424 | .00000 | .02040 | .02300 | .01980 | .02040 | -.00320 | -.10890 |
| .899 | 5.029 | .00000 | .02040 | .02300 | .01980 | .02040 | -.00320 | -.10890 |
| .898 | 5.672 | .00000 | .02040 | .02300 | .01980 | .02040 | -.00320 | -.10890 |
| .900 | 7.021 | .00000 | .02040 | .02300 | .01980 | .02040 | -.00320 | -.10070 |
| .900 | 8.079 | .01010 | .02040 | .01150 | .01980 | .03050 | -.00830 | -.10890 |
| .902 | 10.127 | .03400 | .02040 | .00000 | .01980 | -.01360 | .01980 | -.11710 |
| .898 | 15.089 | .03400 | .01020 | .02300 | .01980 | -.02380 | -.00320 | -.11710 |
| GRADIENT | | .00000 | .00000 | .00000 | .00000 | .00000 | -.00000 | .00327 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(02F081) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 70.000 RUDDER = .000
RN/L = 5.000

RUN NO. 743/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH .951
ALPHA -5.076
ELV-LO .00000
ELV-LI .03060
ELV-RO .02300
ELV-RI .03960
DELL .03060
DELR .01660
DRHL -.11710
MACH .951
ALPHA -.060
ELV-LO .00850
ELV-LI .03060
ELV-RO .02300
ELV-RI .01980
DELL .02210
DELR -.00320
DRHL -.11710
MACH .952
ALPHA 2.508
ELV-LO .00850
ELV-LI .03060
ELV-RO .03450
ELV-RI .02970
DELL .02210
DELR -.00480
DRHL -.11710
MACH .952
ALPHA 5.067
ELV-LO .00850
ELV-LI .03060
ELV-RO .01150
ELV-RI .02970
DELL .02210
DELR .02970
DRHL -.11710
MACH .949
ALPHA 7.105
ELV-LO .00850
ELV-LI .03060
ELV-RO .00000
ELV-RI .02970
DELL .02210
DELR .02970
DRHL -.11710
MACH .950
ALPHA 8.145
ELV-LO .00850
ELV-LI .03060
ELV-RO .02300
ELV-RI .02970
DELL .03060
DELR .00670
DRHL -.10070
MACH .951
ALPHA 10.190
ELV-LO .00000
ELV-LI .03060
ELV-RO .01150
ELV-RI .02970
DELL .03060
DELR .01820
DRHL -.10070
MACH .953
ALPHA 12.219
ELV-LO .00000
ELV-LI .03060
ELV-RO .01150
ELV-RI .02970
DELL .02040
DELR .01820
DRHL -.11710
MACH .952
ALPHA 15.255
ELV-LO .00000
ELV-LI -.00000
ELV-RO .00448
ELV-RI .00385
DELL -.00000
DELR -.00062
DRHL .00000

RUN NO. 742/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH 1.201
ALPHA -5.069
ELV-LO .00000
ELV-LI .01020
ELV-RO .03450
ELV-RI .00000
DELL .01020
DELR -.03450
DRHL -.14180
MACH 1.198
ALPHA -.067
ELV-LO .00000
ELV-LI .00000
ELV-RO .02300
ELV-RI .00000
DELL .00000
DELR -.02300
DRHL -.14180
MACH 1.202
ALPHA 2.495
ELV-LO .00000
ELV-LI .00000
ELV-RO .02300
ELV-RI .00000
DELL .00000
DELR -.02300
DRHL -.14180
MACH 1.198
ALPHA 5.112
ELV-LO .00000
ELV-LI .00000
ELV-RO .02300
ELV-RI .00000
DELL .00000
DELR -.02300
DRHL -.14180
MACH 1.199
ALPHA 7.154
ELV-LO .00000
ELV-LI .00000
ELV-RO .01150
ELV-RI .00000
DELL .00000
DELR -.01150
DRHL -.14180
MACH 1.199
ALPHA 8.151
ELV-LO .00000
ELV-LI .00000
ELV-RO .02300
ELV-RI .00000
DELL .00000
DELR -.04320
DRHL -.14180
MACH 1.199
ALPHA 10.197
ELV-LO .00000
ELV-LI .00000
ELV-RO .03450
ELV-RI .00000
DELL .00000
DELR -.07490
DRHL -.14180
MACH 1.199
ALPHA 12.207
ELV-LO .00000
ELV-LI .00000
ELV-RO .02300
ELV-RI .02970
DELL .01190
DELR .00670
DRHL -.14180
MACH 1.201
ALPHA 15.232
ELV-LO .00850
ELV-LI .00000
ELV-RO .00000
ELV-RI .00000
DELL .00000
DELR .00000
DRHL .00000

RUN NO. 735/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH 1.400
ALPHA -5.075
ELV-LO .02550
ELV-LI .02040
ELV-RO .03450
ELV-RI -.03030
DELL -.00510
DELR -.06480
DRHL -.10070
MACH 1.404
ALPHA -.026
ELV-LO .01700
ELV-LI .01020
ELV-RO .02300
ELV-RI .01980
DELL -.00680
DELR -.00320
DRHL -.10070
MACH 1.404
ALPHA .397
ELV-LO .01700
ELV-LI .01020
ELV-RO .02300
ELV-RI .01980
DELL -.00680
DELR -.00320
DRHL -.10070
MACH 1.402
ALPHA 2.487
ELV-LO .01700
ELV-LI .01020
ELV-RO .02300
ELV-RI .00990
DELL -.00680
DELR -.01310
DRHL -.10070
MACH 1.399
ALPHA 5.073
ELV-LO .01700
ELV-LI .01020
ELV-RO .02300
ELV-RI .00990
DELL -.00680
DELR -.01310
DRHL -.10070
MACH 1.399
ALPHA 7.115
ELV-LO .01700
ELV-LI .01020
ELV-RO .02300
ELV-RI .00990
DELL -.00680
DELR -.01310
DRHL -.10070
MACH 1.399
ALPHA 8.148
ELV-LO .01700
ELV-LI .01020
ELV-RO .02300
ELV-RI .00990
DELL -.00680
DELR -.01310
DRHL -.10070
MACH 1.400
ALPHA 10.206
ELV-LO .01700
ELV-LI .01020
ELV-RO .02300
ELV-RI .00990
DELL -.00680
DELR -.01310
DRHL -.10070
MACH 1.397
ALPHA 12.194
ELV-LO .01700
ELV-LI .01020
ELV-RO .02300
ELV-RI .00990
DELL -.00680
DELR -.01310
DRHL -.10070
MACH 1.397
ALPHA 15.258
ELV-LO .00850
ELV-LI .00000
ELV-RO -.00000
ELV-RI .00000
DELL .00000
DELR .00000
DRHL .00125

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(02F082) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

ALPHA = 5.000
 AILRON = .000
 SPD BRK = 70.000
 RUDDER = 5.000
 ELEVON = .000
 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 754/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|---------|--------|---------|
| .999 | -6.027 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -.11710 |
| .998 | -1.921 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -.13360 |
| .998 | -.885 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -.14180 |
| .999 | .111 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -.14180 |
| .997 | .613 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -.15000 |
| .998 | 1.131 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -.14180 |
| .998 | 2.176 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -.14180 |
| .998 | 3.211 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -.15000 |
| .997 | 4.243 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -.15000 |
| .997 | 6.312 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -.15000 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | -.00000 | .00000 | -.00215 |

RUN NO. 751/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|---------|--------|---------|
| .800 | -6.065 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -.13360 |
| .799 | -1.946 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -.14180 |
| .800 | -.905 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -.14180 |
| .799 | .118 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -.15000 |
| .799 | .639 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -.15000 |
| .799 | 1.159 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -.12540 |
| .799 | 2.195 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -.13360 |
| .798 | 3.240 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -.13360 |
| .799 | 4.277 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -.15000 |
| .797 | 6.353 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -.12540 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | -.00000 | .00000 | .00044 |

RUN NO. 749/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|--------|--------|--------|---------|---------|---------|
| .901 | -6.087 | .00850 | .00000 | .01150 | .01980 | -.00850 | .00830 | -.15000 |
| .901 | -1.955 | .00850 | .00000 | .01150 | .01980 | -.00850 | .00830 | -.17190 |
| .900 | -.906 | .00850 | .00000 | .01150 | .01980 | -.00850 | .00830 | -.18280 |
| .901 | .125 | .00850 | .00000 | .01150 | .00990 | -.00850 | -.00160 | -.19370 |
| .902 | .653 | .00850 | .00000 | .01150 | .01980 | -.00850 | .00830 | -.18280 |
| .902 | 1.165 | .00850 | .00000 | .01150 | .01980 | -.00850 | .00830 | -.18280 |
| .902 | 2.210 | .00850 | .00000 | .01150 | .01980 | -.00850 | .00830 | -.14180 |
| .901 | 3.258 | .00850 | .00000 | .01150 | .01980 | -.00850 | .00830 | -.15000 |
| .899 | 4.297 | .00850 | .00000 | .01150 | .01980 | -.00850 | .00830 | -.15000 |
| .898 | 6.375 | .00850 | .00000 | .01150 | .01980 | -.00850 | .00830 | -.18280 |
| | GRADIENT | -.00000 | .00000 | .00000 | .00032 | .00000 | .00032 | .00646 |

(02F082) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPOBRK = 70.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 744/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|---------|--------|--------|---------|--------|---------|
| .952 | -6.142 | .00000 | .03060 | .02300 | .02970 | .03060 | .00670 | -.10890 |
| .953 | -1.975 | .00000 | .03060 | .02300 | .02970 | .03060 | .00670 | -.11710 |
| .951 | -.932 | .00850 | .03060 | .02300 | .02970 | .02210 | .00670 | -.12540 |
| .950 | .137 | .00850 | .03060 | .02300 | .02970 | .02210 | .00670 | -.12540 |
| .951 | .618 | .00850 | .03060 | .02300 | .02970 | .02210 | .00670 | -.12540 |
| .950 | 1.143 | .00850 | .03060 | .02300 | .02970 | .02210 | .00670 | -.12540 |
| .951 | 2.203 | .00850 | .02040 | .02300 | .02970 | .01190 | .00670 | -.13360 |
| .950 | 3.252 | .00850 | .02040 | .02300 | .02970 | .01190 | .00670 | -.14180 |
| .950 | 4.290 | .00850 | .02040 | .02300 | .02970 | .01190 | .00670 | -.16090 |
| .949 | 6.362 | .00850 | .02040 | .02300 | .02970 | .01190 | .00670 | -.00311 |
| | GRADIENT | .00085 | -.00214 | .00000 | .00000 | -.00299 | .00000 | |

RUN NO. 741/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|---------|--------|---------|---------|---------|
| 1.201 | -6.095 | .00000 | .01020 | .02300 | .00000 | .01020 | -.02300 | -.12540 |
| 1.199 | -1.954 | .00850 | .01020 | .02300 | .00000 | .00170 | -.02300 | -.14180 |
| 1.199 | -.905 | .00850 | .01020 | .01150 | .00000 | .00170 | -.01150 | -.14180 |
| 1.198 | .147 | .00850 | .01020 | .01150 | .00000 | .00170 | -.01150 | -.14180 |
| 1.199 | .625 | .00850 | .01020 | .01150 | .00000 | .00170 | -.01150 | -.14180 |
| 1.201 | 1.147 | .01700 | .01020 | .01150 | .00000 | -.00680 | -.01150 | -.14180 |
| 1.199 | 2.202 | .01700 | .00000 | .01150 | .00000 | -.01700 | -.01150 | -.14180 |
| 1.198 | 3.253 | .00000 | .00000 | .01150 | .00000 | .00000 | -.01150 | -.15000 |
| 1.197 | 4.296 | .00000 | .00000 | .01150 | .00000 | .00000 | -.01150 | -.15000 |
| 1.198 | 6.366 | .00850 | .00000 | .01150 | .00000 | -.00850 | -.01150 | -.16090 |
| | GRADIENT | -.00117 | -.00215 | -.00115 | .00000 | -.00098 | .00115 | -.00144 |

RUN NO. 736/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|---------|---------|---------|---------|---------|---------|
| 1.403 | -6.144 | .02550 | .02040 | .03450 | .01980 | -.00510 | -.01470 | -.15000 |
| 1.406 | -1.981 | .02550 | .02040 | .03450 | .01980 | -.00510 | -.01470 | -.15000 |
| 1.406 | -.920 | .02550 | .01020 | .03450 | .01980 | -.01530 | -.01470 | -.15000 |
| 1.404 | .143 | .02550 | .02040 | .03450 | .01980 | -.00510 | -.01470 | -.16090 |
| 1.403 | .623 | .02550 | .01020 | .03450 | .01980 | -.01530 | -.01470 | -.16090 |
| 1.402 | 1.159 | .03400 | .01020 | .03450 | .01980 | -.02380 | -.01470 | -.16090 |
| 1.403 | 2.215 | .02550 | .01020 | .03450 | .01980 | -.01530 | -.01470 | -.16090 |
| 1.402 | 3.273 | .02550 | .01020 | .03450 | .01980 | -.01530 | -.00320 | -.17190 |
| 1.402 | 4.323 | .02550 | .02040 | .02300 | -.01010 | -.03310 | -.03310 | -.17190 |
| 1.400 | 6.399 | .03400 | .01020 | .02300 | -.03960 | -.02380 | .01660 | -.16090 |
| | GRADIENT | .00001 | -.00027 | -.00199 | -.00310 | -.00029 | -.00110 | -.00370 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(D2F083) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AIRLON = .000
 RDLAP = .000 SPDRK = 70.000
 RN/L = 5.000

RUN NO. 756/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|---------|--------|-----------|
| .597 | -14.970 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -18.04400 |
| .598 | -10.754 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -13.02800 |
| .598 | -4.939 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -6.01000 |
| .598 | -2.442 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -2.97460 |
| .598 | -1.110 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -1.3360 |
| .597 | 2.522 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | 3.07160 |
| .598 | 5.014 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | 6.10130 |
| .598 | 10.027 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | 12.15690 |
| .598 | 15.014 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | 18.09500 |
| .598 | 18.134 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | 21.75200 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | -.00000 | .00000 | 1.21726 |

RUN NO. 747/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|--------|--------|-----------|
| .902 | -14.993 | .00850 | .02040 | .02300 | .01980 | .01190 | .01980 | -18.07000 |
| .901 | -10.754 | .00850 | .02040 | .01150 | .01980 | .01190 | .01980 | -13.02800 |
| .901 | -4.954 | .00850 | .02040 | .02300 | .01980 | .01190 | .01980 | -6.02820 |
| .900 | -2.434 | .00850 | .02040 | .02300 | .01980 | .01190 | .01980 | -2.96470 |
| .901 | -.096 | .00850 | .02040 | .02300 | .01980 | .01190 | .01980 | -1.1710 |
| .901 | 2.505 | .00850 | .02040 | .02300 | .01980 | .01190 | .01980 | 3.05070 |
| .901 | 5.024 | .00850 | .02040 | .02300 | .01980 | .01190 | .01980 | 6.11260 |
| .901 | 10.011 | .00850 | .02040 | .02300 | .01980 | .01190 | .01980 | 12.13700 |
| .901 | 15.022 | .00000 | .02040 | .02300 | .01980 | .02040 | .01980 | 18.10500 |
| .901 | 18.125 | .00000 | .02040 | .02300 | .01980 | .02040 | .01980 | 21.74200 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | 1.21726 |

RUN NO. 746/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|---------|---------|---------|-----------|
| .951 | -14.976 | .00850 | .02040 | .01150 | .02970 | .01190 | .01820 | -18.05000 |
| .951 | -10.736 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -13.00600 |
| .952 | -4.961 | .00850 | .02040 | .01150 | .02970 | .01190 | .01820 | -6.03730 |
| .951 | -2.434 | .00850 | .02040 | .02300 | .02970 | .01190 | .00670 | -2.96470 |
| .951 | -.103 | .01700 | .02040 | .02300 | .02970 | .00340 | .00670 | -1.2540 |
| .951 | 2.496 | .01700 | .02040 | .02300 | .02970 | .00340 | .00670 | 3.04020 |
| .951 | 5.033 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | 6.12390 |
| .952 | 10.019 | .01700 | .02040 | .02300 | .02970 | .00340 | .00670 | 12.14700 |
| .952 | 15.022 | .01700 | .02040 | .02300 | .02970 | .00340 | .00670 | 18.10500 |
| .950 | 18.134 | .01700 | .02040 | .02300 | .02970 | .00340 | .00670 | 21.75200 |
| | GRADIENT | .00136 | .00000 | .00140 | -.00000 | -.00136 | -.00140 | 1.21726 |

AMES 118-1-11 0A145A 01

(02F083) (08 JUL 77)

REFERENCE DATA

| | | | |
|-------|---|-----------|--------|
| SREF | = | 2690.0000 | SQ.FT. |
| LREF | = | 474.8100 | INCHES |
| BREF | = | 936.6800 | INCHES |
| SCALE | = | .0500 | |

| | | | | |
|------|---|-----------|-----|----|
| XMRP | = | 1076.6800 | IN. | X0 |
| YMRP | = | .0000 | IN. | Y0 |
| ZMRP | = | 375.0000 | IN. | Z0 |

PARAMETRIC DATA

| | | | | | |
|--------|---|-------|--------|---|--------|
| ALPHA | = | 5.000 | BETA | = | .000 |
| ELEVON | = | .000 | ATLRON | = | .000 |
| BOFLAP | = | .000 | SPDRK | = | 70.000 |
| RN/L | = | 5.000 | | | |

| | | | | | |
|----------|--------|--------|------|---------------------|-------------|
| RUN NO.: | 739/ 0 | RN/L = | 5.04 | GRADIENT INTERVAL = | -5.00/ 5.00 |
|----------|--------|--------|------|---------------------|-------------|

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|---------|---------|---------|-----------|
| 1.199 | -14.965 | .0000 | .0000 | .02300 | .00990 | .00000 | -.01310 | -18.03800 |
| 1.199 | -10.754 | .0000 | .0000 | .02300 | .00000 | .00000 | -.02300 | -13.02800 |
| 1.199 | -4.961 | .0000 | .0000 | .02300 | .00000 | .00000 | -.02300 | -6.03730 |
| 1.199 | -2.434 | .0000 | .0000 | .02300 | .00000 | .00000 | -.02300 | -2.96470 |
| 1.200 | -.089 | .0000 | .0000 | .02300 | .00000 | .00000 | -.10890 | |
| 1.200 | 2.513 | .0000 | .01020 | .02300 | -.01010 | .01020 | -.03310 | 3.06120 |
| 1.199 | 5.024 | .0000 | .01020 | .02300 | -.01010 | .00000 | -.03310 | 6.11260 |
| 1.200 | 10.011 | .0000 | .00000 | .02300 | .00000 | .00000 | -.02300 | -12.13700 |
| 1.199 | 15.022 | .0000 | .00000 | .02300 | .00000 | .00000 | -.02300 | 18.10500 |
| 1.201 | 18.116 | .0000 | .01020 | .02300 | .00000 | .01020 | -.02300 | 21.73100 |
| | GRADIENT | .0000 | .00125 | .00000 | -.00124 | -.00125 | -.06124 | 1.21728 |

| | | | | | | |
|---------|--------|--------|------|---------------------|--------|------|
| RUN NO. | 738/ 0 | RN/L = | 5.02 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|---------|--------|--------|------|---------------------|--------|------|

[illegible]

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OAI45 TABULATED FORCE DATA

PAGE 1525

AMES 118-1-11 OAI45A 01

(02F084) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDRK = 70.000 RUDDER = -5.000
 RN/L = 5.000

RUN NO. 755/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|---------|---------|---------|----------|
| .597 | -6.047 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -6.01910 |
| .597 | -1.913 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -6.02820 |
| .597 | -.877 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -6.03730 |
| .598 | .120 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -6.03730 |
| .598 | .618 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -6.03730 |
| .597 | 1.134 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -6.04640 |
| .597 | 2.181 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -6.04640 |
| .597 | 3.214 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -6.05550 |
| .597 | 4.250 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -6.05550 |
| .597 | 6.315 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -6.01910 |
| | GRADIENT | .00000 | .00000 | .00000 | -.00000 | .00000 | -.00000 | -.00450 |

RUN NO. 750/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|---------|--------|----------|
| .902 | -6.080 | .00000 | .00000 | .00000 | .01980 | .00000 | .01980 | -6.02820 |
| .903 | -1.943 | .00000 | .00000 | .00000 | .01980 | .00000 | .01980 | -6.05550 |
| .900 | -.900 | .00000 | .00000 | .00000 | .01980 | .00000 | .01980 | -6.05550 |
| .902 | .156 | .00000 | .00000 | .00000 | .01980 | .00000 | .01980 | -6.02820 |
| .899 | .677 | .00000 | .00000 | .00000 | .01980 | .00000 | .01980 | -6.01910 |
| .902 | 1.181 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -6.02820 |
| .900 | 2.221 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -6.03730 |
| .901 | 3.264 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -6.04640 |
| .900 | 4.303 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -6.05550 |
| .898 | 6.381 | .00850 | .00000 | .00000 | .01980 | -.00850 | .01980 | -6.06450 |
| | GRADIENT | .00181 | .00000 | .00000 | .00000 | -.00181 | .00000 | -.00004 |

RUN NO. 745/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|---------|--------|---------|--------|----------|
| .950 | -6.095 | .00000 | .02040 | .02300 | .02970 | .02040 | .00670 | -6.01000 |
| .952 | -1.962 | .00000 | .02040 | .02300 | .02970 | .02040 | .00670 | -6.04640 |
| .951 | -.924 | .00850 | .02040 | .02300 | .02970 | .01190 | .00670 | -6.04640 |
| .951 | .150 | .00850 | .02040 | .02300 | .02970 | .01190 | .00670 | -6.04640 |
| .952 | .627 | .00850 | .02040 | .02300 | .02970 | .01190 | .00670 | -6.04640 |
| .951 | 1.155 | .00850 | .02040 | .01150 | .02970 | .01190 | .01820 | -6.04640 |
| .950 | 2.211 | .00850 | .02040 | .01150 | .02970 | .01190 | .01820 | -6.05550 |
| .950 | 3.255 | .00850 | .02040 | .01150 | .02970 | .01190 | .01820 | -6.01910 |
| .950 | 4.292 | .00850 | .02040 | .01150 | .02970 | .01190 | .01820 | -6.02820 |
| .947 | 6.365 | .00850 | .02040 | .01150 | .02970 | .01190 | .01820 | -6.03730 |
| | GRADIENT | .00085 | .00000 | -.00244 | .00000 | -.00085 | .00244 | .00348 |

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OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(02F084) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 70.000 RUDDER = -5.000
 RN/L = 5.000

| RUN NO. 740/ 0 | | RN/L = 5.04 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|---------|---------------------------------|----------|
| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI |
| 1.201 | -6.121 | .00850 | .01020 | .02300 | .02970 |
| 1.200 | -1.949 | .01700 | .01020 | .02300 | .04950 |
| 1.200 | -.897 | .01700 | .01020 | .02300 | .03960 |
| 1.198 | .154 | .01700 | .01020 | .02300 | .03960 |
| 1.199 | .628 | .01700 | .01020 | .01150 | .03960 |
| 1.200 | 1.159 | .01700 | .01020 | .01150 | .03960 |
| 1.199 | 2.208 | .01700 | .00000 | .01150 | .03960 |
| 1.199 | 3.257 | .02550 | .00000 | .01150 | .03960 |
| 1.199 | 4.304 | .00000 | .00000 | .01150 | .04950 |
| 1.197 | 6.372 | .00850 | .01020 | .01150 | .07920 |
| | GRADIENT | -.00118 | -.00215 | -.00226 | .00005 |
| | | | | | |
| | | | | DELL | DELR |
| | | | | .00170 | .00670 |
| | | | | -.00680 | .02650 |
| | | | | -.00680 | .01660 |
| | | | | -.00680 | .01660 |
| | | | | -.00680 | .02810 |
| | | | | -.00680 | .02810 |
| | | | | -.01700 | .02810 |
| | | | | -.02550 | .02810 |
| | | | | .00000 | .03800 |
| | | | | .00170 | .06770 |
| | | | | -.00097 | .00231 |
| | | | | | DRHL |
| | | | | | -6.02820 |
| | | | | | -6.02820 |
| | | | | | -6.02820 |
| | | | | | -6.02820 |
| | | | | | -6.02820 |
| | | | | | -6.02820 |
| | | | | | -6.02820 |
| | | | | | -6.03730 |
| | | | | | -6.04640 |
| | | | | | -.00095 |

| RUN NO. 737/ 0 | | RN/L = 5.00 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|---------|---------------------------------|----------|
| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI |
| 1.400 | -6.137 | .01700 | .02040 | .02300 | .02970 |
| 1.406 | -1.989 | .01700 | .02040 | .02300 | .02970 |
| 1.404 | -.928 | .01700 | .01020 | .02300 | .00000 |
| 1.403 | .138 | .01700 | .01020 | .02300 | .00000 |
| 1.403 | .619 | .01700 | .00000 | .02300 | .00000 |
| 1.402 | 1.151 | .01700 | .00000 | .02300 | .00000 |
| 1.403 | 2.206 | .01700 | .01020 | .02300 | .00000 |
| 1.403 | 3.260 | .01700 | .00000 | .02300 | .01980 |
| 1.402 | 4.305 | .02550 | .00000 | .02300 | .01980 |
| 1.402 | 6.393 | .02550 | .00000 | .02300 | .01980 |
| 1.399 | GRADIENT | .00088 | -.00265 | .00000 | -.00146 |
| | | | | | |
| | | | | DELL | DELR |
| | | | | .00340 | .00670 |
| | | | | .00340 | .00670 |
| | | | | -.00580 | .00670 |
| | | | | -.00580 | .02300 |
| | | | | -.01700 | .02300 |
| | | | | -.01700 | .02300 |
| | | | | -.00580 | .02300 |
| | | | | -.01700 | .02300 |
| | | | | -.02550 | .02300 |
| | | | | -.02550 | .02300 |
| | | | | -.02550 | .02300 |
| | | | | -.00353 | -.00146 |
| | | | | | DRHL |
| | | | | | -6.03730 |
| | | | | | -6.06450 |
| | | | | | -6.06450 |
| | | | | | -6.07360 |
| | | | | | -6.07360 |
| | | | | | -6.07360 |
| | | | | | -6.07360 |
| | | | | | -6.07360 |
| | | | | | -6.08270 |
| | | | | | -6.08270 |
| | | | | | -6.08270 |
| | | | | | -6.09180 |
| | | | | | -6.10090 |
| | | | | | -.00435 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1527

AMES 118-1-11 0A145A 01

(02F085) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 87.200 RUDDER = .000
RN/L = 5.000

PARAMETRIC DATA

RUN NO. 450/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|--------|--------|--------|---------|--------|---------|
| .597 | -5.025 | .00850 | .01020 | .02300 | .02970 | .00170 | .00670 | -.13360 |
| .598 | -.013 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.13360 |
| .597 | 2.523 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.13360 |
| .596 | 5.037 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.13360 |
| .596 | 7.078 | -.01010 | .01020 | .01150 | .02970 | .02030 | .01820 | -.12540 |
| .597 | 8.133 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.12540 |
| .596 | 10.191 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.12540 |
| .596 | 12.250 | .00000 | .01020 | .02300 | .02970 | .01020 | .00670 | -.12540 |
| .597 | 15.280 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.12540 |
| GRADIENT | | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 |

RUN NO. 460/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|--------|--------|---------|---------|---------|---------|---------|
| .803 | -5.427 | .00000 | .00000 | .01150 | .01980 | .00000 | .00830 | -.15000 |
| .802 | -.001 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.15000 |
| .802 | 2.583 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.15000 |
| .799 | 4.995 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.15000 |
| .798 | 7.011 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.15000 |
| .799 | 9.033 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.15000 |
| .801 | 9.951 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.15000 |
| .800 | 11.965 | .00850 | .02040 | .01150 | -.05050 | .01190 | -.06200 | -.15000 |
| .797 | 14.829 | .01700 | .00000 | .01150 | -.04040 | -.01700 | -.05190 | -.15000 |
| GRADIENT | | .00000 | .00000 | -.00000 | .00000 | .00000 | .00000 | .00000 |

RUN NO. 462/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|--------|--------|--------|---------|--------|---------|
| .903 | -5.893 | .01700 | .01020 | .02300 | .02970 | -.00680 | .00670 | -.15000 |
| .902 | -5.051 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.15000 |
| .903 | -.819 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | -.15000 |
| .902 | .437 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.15000 |
| .903 | 2.032 | .02550 | .02040 | .01150 | .02970 | -.00510 | .01820 | -.15000 |
| .901 | 4.550 | .00000 | .03060 | .01150 | .02970 | .03060 | .01820 | -.15000 |
| .898 | 6.778 | .01700 | .03060 | .00000 | .02970 | .01360 | .02970 | -.15000 |
| .901 | 8.231 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.15000 |
| .901 | 10.229 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.15000 |
| .902 | 12.171 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.15000 |
| .902 | 14.807 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.15000 |
| GRADIENT | | -.00417 | .00341 | .00000 | .00000 | .00757 | .00000 | -.00000 |

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OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(02F085) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 87.200 RUDDER = .000
 RN/L = 5.000

| RUN NO. 473/ 0 | | RN/L = 5.00 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|--------|---------------------------------|--------|
| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI |
| .952 | -5.204 | .00000 | .03060 | .01150 | .04950 |
| .952 | -1.133 | .03400 | .03060 | .01150 | .03960 |
| .951 | 2.324 | .03400 | .03060 | .01150 | .03960 |
| .948 | 4.840 | .02550 | .03060 | .01150 | .04950 |
| .950 | 6.837 | .04250 | .03060 | .01150 | .04950 |
| .949 | 7.798 | .04250 | .03060 | .01150 | .04950 |
| .951 | 9.875 | .04250 | .01020 | .01150 | .04950 |
| .950 | 12.068 | .00850 | .03060 | .01150 | .04950 |
| .950 | 15.131 | .00850 | .02040 | .01150 | .04950 |
| | GRADIENT | -.00172 | .00000 | -.00000 | .00200 |

DELTA
 DELR
 DRHL

DELTA
 DELR
 DRHL

| RUN NO. 486/ 0 | | RN/L = 4.98 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|---------|---------------------------------|---------|
| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI |
| 1.103 | -5.182 | .00000 | .02040 | .01150 | .02970 |
| 1.103 | -1.165 | .00000 | .02040 | .01150 | .02970 |
| 1.104 | 2.139 | .00000 | .01020 | .01150 | .02970 |
| 1.103 | 2.417 | .01700 | .01020 | .01150 | .01980 |
| 1.102 | 5.122 | .00850 | .01020 | .01150 | .01980 |
| 1.105 | 7.184 | .00850 | .00000 | .01150 | .01980 |
| 1.105 | 8.157 | .01700 | .00000 | .01150 | .01980 |
| 1.101 | 10.153 | .00850 | .01020 | .01150 | .02970 |
| 1.102 | 12.177 | .00000 | .01020 | .01150 | .02970 |
| 1.101 | 15.161 | .00000 | .01020 | .01150 | .02970 |
| | GRADIENT | .00404 | -.00413 | -.00000 | -.00235 |

DELTA
 DELR
 DRHL

DELTA
 DELR
 DRHL

| RUN NO. 489/ 0 | | RN/L = 4.95 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|---------|---------------------------------|---------|
| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI |
| 1.199 | -5.188 | .00000 | .02040 | .01150 | .02970 |
| 1.202 | -1.152 | .00000 | .02040 | .01150 | .02970 |
| 1.199 | 2.417 | .00000 | .02040 | .01150 | .02970 |
| 1.198 | 4.998 | .00000 | .01020 | .01150 | .01980 |
| 1.200 | 7.081 | .00000 | .00000 | .01150 | .02970 |
| 1.198 | 8.095 | .00000 | .02040 | .01150 | .02970 |
| 1.196 | 10.130 | .00000 | .01020 | .01150 | .02970 |
| 1.199 | 12.156 | .00000 | .01020 | .01150 | .02970 |
| 1.198 | 15.171 | .00000 | .01020 | .01150 | .02970 |
| | GRADIENT | .00000 | -.00198 | -.00000 | -.00192 |

DELTA
 DELR
 DRHL

DELTA
 DELR
 DRHL

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(02F085) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 87.200 RUDDER = .000
 RN/L = 5.000

RUN NO. 500/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|--------|--------|--------|---------|
| 1.403 | -5.076 | .00000 | .03060 | .01150 | .01980 | .03060 | .00830 | -.10070 |
| 1.404 | -.035 | .00850 | .02040 | .01150 | .01980 | .01190 | .00830 | -.09250 |
| 1.403 | 2.494 | .00850 | .02040 | .01150 | .01980 | .01190 | .00830 | -.03500 |
| 1.401 | 5.092 | .00850 | .02040 | .01150 | .01980 | .01190 | .00830 | -.02680 |
| 1.400 | 7.150 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.02680 |
| 1.400 | 8.189 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.01860 |
| 1.401 | 10.210 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.01860 |
| 1.400 | 12.263 | .00850 | .02040 | .01150 | .01980 | .01190 | .00830 | -.00210 |
| 1.394 | 15.283 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -.00210 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .02274 |

AMES 118-1-11 OAI45A 01

(02F086) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 87.200 RUDDER = .000
 RN/L = 5.000

RUN NO. 880/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|---------|---------|---------|---------|---------|---------|
| .596 | -5.107 | .00000 | .03060 | .01150 | .00990 | .03060 | -.00160 | -.12540 |
| .598 | -.336 | .00000 | .03060 | .01150 | .00990 | .03060 | -.00160 | -.11710 |
| .598 | 2.187 | .00000 | .03060 | .01150 | .00990 | .03060 | -.00160 | -.11710 |
| .597 | 4.747 | .00000 | .03060 | .01150 | .00990 | .03060 | -.00160 | -.11710 |
| .597 | 7.835 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | -.10890 |
| .597 | 9.902 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | -.09250 |
| .596 | 11.941 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | -.09250 |
| .597 | 14.920 | .00850 | .03060 | .01150 | .01980 | .02210 | .00830 | -.14180 |
| .597 | 16.887 | .00850 | .02040 | .01150 | .00990 | .01190 | -.00160 | -.14180 |
| .597 | 18.940 | .00850 | .02040 | .01150 | .01980 | .01190 | .00830 | -.14180 |
| | GRADIENT | .00000 | -.00000 | -.00000 | -.00000 | -.00000 | .00000 | .00000 |

(02F086) (08 JUL 77)

AMES 118-1-11 0A145A 01

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BOFLAP = .000
SPOBRK = 87.200 RUDDER = .000
RN/L = 5.000

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

| RUN NO. 879/ 0 | | RN/L = 4.99 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|--------|-------------|--------|---------------------------------|--------|
| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI |
| .798 | -5.072 | .0000 | .0204 | .0230 | .0090 |
| .801 | -3.335 | .0000 | .0204 | .0230 | .0090 |
| .798 | 2.218 | .0000 | .0204 | .0230 | .0090 |
| .798 | 4.773 | .0000 | .0204 | .0230 | .0090 |
| .797 | 7.853 | .0000 | .0204 | .0115 | .0090 |
| .796 | 9.895 | .0085 | .0204 | .0115 | .0090 |
| .796 | 11.940 | .0000 | .0204 | .0115 | .0090 |
| .797 | 14.908 | .0085 | .0204 | .0230 | .0090 |
| .797 | 16.909 | .0085 | .0204 | .0230 | .0090 |
| .798 | 18.948 | .0085 | .0204 | .0230 | .0090 |
| GRADIENT | | .0000 | .0000 | .0000 | .0000 |

DELL .0204
DELX .0131
DELZ .0131
DRHL -.12540
DRHL -.15000
DRHL -.15000
DRHL -.15000
DRHL -.12540
DRHL -.11710
DRHL -.09250
DRHL -.10890
DRHL -.10890
DRHL -.16090
DRHL .00000

| RUN NO. 878/ 0 | | RN/L = 5.02 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|--------|-------------|--------|---------------------------------|--------|
| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI |
| .898 | -5.068 | .0085 | .0306 | .0115 | .0190 |
| .901 | -2.289 | .0085 | .0306 | .0115 | .0190 |
| .892 | 2.220 | .0085 | .0306 | .0115 | .0190 |
| .899 | 4.773 | .0085 | .0306 | .0115 | .0190 |
| .895 | 7.835 | .0085 | .0306 | .0115 | .0190 |
| .890 | 9.895 | .0085 | .0306 | .0115 | .0190 |
| .897 | 11.985 | .0000 | .0306 | .0115 | .0190 |
| .900 | 14.931 | .0085 | .0204 | .0115 | .0190 |
| .898 | 16.941 | .0085 | .0204 | .0230 | .0190 |
| .899 | 18.969 | .0085 | .0204 | .0230 | .0190 |
| GRADIENT | | .0000 | .0000 | .0000 | .0000 |

DELL .0210
DELX .0210
DELZ .0210
DRHL -.12540
DRHL -.12540
DRHL -.09250
DRHL -.10070
DRHL -.17190
DRHL -.15000
DRHL -.15000
DRHL -.13360
DRHL -.10890
DRHL -.12540
DRHL .00486

| RUN NO. 877/ 0 | | RN/L = 5.04 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|--------|-------------|--------|---------------------------------|--------|
| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI |
| .950 | -5.043 | .0000 | .0306 | .0115 | .0190 |
| .951 | -1.000 | .0085 | .0306 | .0115 | .0190 |
| .950 | 2.423 | .0170 | .0306 | .0115 | .0190 |
| .950 | 4.841 | .0170 | .0306 | .0115 | .0190 |
| .950 | 8.029 | .0000 | .0306 | .0230 | .0190 |
| .950 | 10.073 | .0000 | .0204 | .0230 | .0190 |
| .951 | 11.939 | .0085 | .0204 | .0230 | .0190 |
| .951 | 14.918 | .0085 | .0204 | .0230 | .0190 |
| .950 | 17.044 | .0085 | .0204 | .0230 | .0190 |
| .950 | 19.032 | .0170 | .0204 | .0115 | .0190 |
| GRADIENT | | .00173 | .00000 | .00000 | .00000 |

DELL .0306
DELX .0213
DELZ .0136
DRHL -.23740
DRHL -.13360
DRHL -.09140
DRHL -.12540
DRHL -.30300
DRHL -.10070
DRHL -.09250
DRHL -.10890
DRHL -.13360
DRHL -.13360
DRHL .00188

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0A145 TABULATED FORCE DATA

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(02F086) (08 JUL 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AILTRON = .000 BDFLAP = .000
 SPDBRK = 87.200 RUDDER = .000
 RN/L = 5.000

RUN NO. 876/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|---------|--------|--------|---------|---------|
| 1.198 | -5.071 | .00850 | .02040 | .02300 | .00990 | .01190 | -.01310 | -.19370 |
| 1.200 | - .056 | .00850 | .03060 | .02300 | .00990 | .02210 | -.01310 | -.23740 |
| 1.198 | 2.484 | .00000 | .03060 | .01150 | .00990 | .03060 | .00160 | -.08430 |
| 1.199 | 5.027 | .00000 | .02040 | .02300 | .00990 | .02040 | -.01310 | -.03500 |
| 1.199 | 8.028 | .00850 | .02040 | .01150 | .00990 | .01190 | -.00160 | -.12540 |
| 1.197 | 10.036 | .00850 | .02040 | .02300 | .01980 | .01190 | -.00320 | -.12540 |
| 1.197 | 12.014 | .00850 | .01020 | .02300 | .01980 | .00170 | -.00320 | -.05140 |
| 1.197 | 14.974 | .00850 | .02040 | .02300 | .01980 | .01190 | -.00320 | -.05140 |
| 1.197 | 16.927 | .00000 | .01020 | .02300 | .01980 | .01020 | -.00320 | -.13360 |
| 1.197 | 19.007 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | -.08430 |
| | GRADIENT | -.00335 | -.00000 | -.00453 | .00000 | .00335 | .00453 | .06029 |

RUN NO. 875/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|--------|---------|--------|--------|---------|---------|
| 1.298 | -5.014 | .00850 | .03060 | .02300 | .00990 | .02210 | -.01310 | -.16090 |
| 1.296 | - .008 | .00850 | .03060 | .02300 | .00990 | .02210 | -.01310 | -.20460 |
| 1.297 | 2.520 | .00000 | .03060 | .02300 | .00990 | .03060 | .00160 | -.16090 |
| 1.296 | 5.036 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | -.06790 |
| 1.295 | 8.107 | .00850 | .02040 | .01150 | .00990 | .01190 | -.00160 | -.04320 |
| 1.295 | 10.075 | .00850 | .02040 | .02300 | .00990 | .01190 | -.01310 | -.11710 |
| 1.294 | 12.064 | .00000 | .02040 | .02300 | .00990 | .02040 | -.01310 | -.04320 |
| 1.292 | 15.030 | .00000 | .02040 | .02300 | .00990 | .02040 | -.01310 | -.06790 |
| 1.290 | 16.880 | .00000 | .02040 | .01150 | .00990 | .02040 | -.00160 | -.02680 |
| 1.289 | 18.699 | .00000 | .02040 | .01150 | .00990 | .02040 | -.00160 | -.01040 |
| | GRADIENT | -.00336 | .00000 | -.00000 | .00000 | .00336 | .00000 | .01729 |

RUN NO. 874/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|---------|---------|---------|---------|---------|
| 1.403 | -5.265 | .00850 | .03060 | .02300 | .00990 | .02210 | -.01310 | -.09250 |
| 1.404 | - .038 | .00000 | .03060 | .02300 | .00990 | .03060 | -.01310 | -.14180 |
| 1.403 | 2.501 | .00850 | .03060 | .01150 | .00990 | .02210 | .00160 | -.15000 |
| 1.401 | 5.076 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | -.10890 |
| 1.401 | 8.063 | .00000 | .03060 | .01150 | .00990 | .03060 | -.00160 | -.05960 |
| 1.400 | 10.019 | .00000 | .03060 | .01150 | .00990 | .03060 | -.00160 | -.06790 |
| 1.399 | 11.990 | .00850 | .02040 | .01150 | .00990 | .01190 | -.00160 | -.11710 |
| 1.397 | 14.986 | .00000 | .03060 | .01150 | .00990 | .03060 | -.00160 | -.02680 |
| 1.391 | 16.845 | .00000 | .02040 | .01150 | .00990 | .02040 | -.00160 | -.01860 |
| 1.388 | 18.766 | .00000 | .03060 | .01150 | .00990 | .03060 | -.00160 | -.01040 |
| | GRADIENT | .00335 | .00000 | -.00453 | -.00000 | -.00335 | .00453 | -.00323 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(02F087) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPOBRK = 87.200 RUDDER = .000
 RN/L = 5.000

RUN NO. 457/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|---------|--------|---------|--------|---------|
| .598 | -6.191 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.15000 |
| .598 | -2.105 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.15000 |
| .598 | -1.061 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.15000 |
| .598 | .011 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.15000 |
| .598 | .529 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.15000 |
| .598 | 1.051 | .01700 | .02040 | .01150 | .01980 | .00340 | .00830 | -.15000 |
| .598 | 2.108 | .01700 | .02040 | .01150 | .01980 | .00340 | .00830 | -.15000 |
| .598 | 3.146 | .01700 | .02040 | .01150 | .01980 | .00340 | .00830 | -.15000 |
| .598 | 4.180 | .01700 | .02040 | .01150 | .01980 | .00340 | .00830 | -.15000 |
| .598 | 6.237 | .01700 | .02040 | .01150 | .01980 | .00340 | .00830 | -.16090 |
| .597 | 8.287 | .01700 | .02040 | .01150 | .01980 | .00340 | .00830 | -.16090 |
| | GRADIENT | .00000 | .00215 | -.00000 | .00000 | .00215 | .00000 | -.00000 |

RUN NO. 458/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|---------|--------|---------|
| .804 | -6.237 | .04250 | .01020 | .01150 | .01980 | -.03230 | .00830 | -.14180 |
| .805 | -2.127 | .05100 | .01020 | .01150 | .01980 | -.04080 | .00830 | -.15000 |
| .804 | -1.072 | .05100 | .01020 | .01150 | .01980 | -.04080 | .00830 | -.15000 |
| .804 | .004 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -.15000 |
| .805 | .532 | .27200 | .01020 | .01150 | .01980 | -.26180 | .00830 | -.15000 |
| .804 | 1.055 | .00000 | .00000 | .01150 | .01980 | .00000 | .00830 | -.15000 |
| .803 | 2.122 | .00000 | .00000 | .01150 | .01980 | .00000 | .00830 | -.15000 |
| | GRADIENT | -.00457 | -.00266 | -.00000 | -.00000 | .00191 | .00000 | .00000 |

RUN NO. 468/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|---------|--------|---------|
| .902 | -6.265 | .01700 | .03060 | .01150 | .04950 | .01360 | .03800 | -.13360 |
| .903 | -2.133 | .01700 | .03060 | .01150 | .04950 | .01360 | .03800 | -.15000 |
| .901 | -1.075 | .01700 | .03060 | .01150 | .04950 | .01360 | .03800 | -.15000 |
| .901 | .009 | .01700 | .03060 | .01150 | .04950 | .01360 | .03800 | -.15000 |
| .903 | .532 | .01700 | .03060 | .01150 | .04950 | .01360 | .03800 | -.15000 |
| .901 | 1.057 | .01700 | .02040 | .01150 | .04950 | .00340 | .03800 | -.15000 |
| .901 | 2.124 | .01700 | .02040 | .01150 | .04950 | .00340 | .03800 | -.15000 |
| .902 | 3.175 | .01700 | .02040 | .01150 | .04950 | .00340 | .03800 | -.15000 |
| .901 | 4.220 | .01700 | .02040 | .01150 | .04950 | .00340 | .03800 | -.16090 |
| .899 | 6.300 | .01700 | .00000 | .01150 | .04950 | -.01700 | .03800 | -.15000 |
| .898 | 8.369 | .01700 | .02040 | .01150 | .04950 | .00340 | .03800 | -.14180 |
| | GRADIENT | -.00000 | -.00211 | -.00000 | -.00000 | -.00211 | .00000 | -.00111 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

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(02F087) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
ATIRON = .000 BDFLAP = .000
SPOBRK = 87.200 RUDDER = .000
RN/L = 5.000

RUN NO. 479/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|--------|---------|--------|---------|
| .951 | -6.264 | .00850 | .02040 | .01150 | .02970 | .01190 | .01820 | -.11710 |
| .954 | -2.133 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.21560 |
| .952 | -1.072 | .00850 | .00000 | .01150 | .02970 | -.00850 | .01820 | -.10070 |
| .951 | .013 | .00850 | .00000 | .01150 | .02970 | -.00850 | .01820 | -.10890 |
| .953 | .537 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.11710 |
| .951 | 1.064 | -.02020 | .01020 | .01150 | .02970 | .03040 | .01820 | -.11710 |
| .951 | 2.133 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.13360 |
| .952 | 3.186 | .00000 | .00000 | .01150 | .02970 | .00000 | .01820 | -.15000 |
| .950 | 4.230 | .00000 | .00000 | .01150 | .02970 | .00000 | .01820 | -.17190 |
| .949 | 6.314 | .00000 | .00000 | .01150 | .02970 | .00000 | .01820 | -.21560 |
| .947 | 8.381 | .00000 | .00000 | .01150 | .02970 | .00000 | .01820 | -.11710 |
| | GRADIENT | -.00170 | -.00076 | -.00000 | .00000 | .00093 | .00000 | -.00006 |

RUN NO. 506/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|--------|--------|---------|--------|---------|
| 1.198 | -6.271 | .00000 | .03060 | .01150 | .01980 | .03060 | .00830 | -.19370 |
| 1.202 | -2.126 | .00850 | .03060 | .01150 | .01980 | .02210 | .00830 | -.19370 |
| 1.199 | -1.071 | .00850 | .03060 | .01150 | .01980 | .02210 | .00830 | -.16090 |
| 1.199 | .013 | .01700 | .03060 | .01150 | .01980 | .01360 | .00830 | -.17190 |
| 1.200 | .536 | .01700 | .03060 | .01150 | .01980 | .01360 | .00830 | -.15000 |
| 1.199 | 1.063 | .02550 | .02040 | .01150 | .01980 | -.00510 | .00830 | -.15000 |
| 1.199 | 2.131 | .00850 | .02040 | .01150 | .01980 | .01190 | .00830 | -.15000 |
| 1.198 | 3.186 | .00850 | .02040 | .01150 | .01980 | .01190 | .00830 | -.16090 |
| 1.199 | 4.234 | .00850 | .02040 | .01150 | .01980 | .01190 | .00830 | -.17190 |
| 1.196 | 6.322 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -.21560 |
| 1.197 | 8.400 | .00850 | .02040 | .01150 | .01980 | .01190 | .00830 | -.19370 |
| | GRADIENT | -.00035 | -.00213 | .00000 | .00000 | -.00178 | .00000 | .00270 |

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OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(02F088) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRX = 87.200 RUDDER = .000
 RN/L = 5.000

RUN NO. 447/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|--------|--------|--------|---------|---------|---------|
| .598 | -6.052 | .04250 | .00000 | .02300 | .01980 | -.04250 | -.00320 | -.12540 |
| .598 | -1.926 | .02400 | .00000 | .02300 | .01980 | -.03400 | -.00320 | -.12540 |
| .598 | -.885 | .04250 | .00000 | .02300 | .01980 | -.04250 | -.00320 | -.13360 |
| .598 | .027 | .00000 | .00000 | .02300 | .01980 | -.01700 | -.00320 | -.13360 |
| .598 | .495 | .01700 | .00000 | .02300 | .01980 | -.01700 | -.00320 | -.13360 |
| .598 | 1.011 | .00000 | .00000 | .02300 | .01980 | .00000 | -.00320 | -.12540 |
| .597 | 2.076 | .02550 | .00000 | .02300 | .01980 | -.02550 | -.00320 | -.13360 |
| .598 | 3.119 | .02550 | .00000 | .02300 | .01980 | -.02550 | -.00320 | -.13360 |
| .597 | 4.152 | .03400 | .00000 | .02300 | .01980 | -.03400 | -.00320 | -.13360 |
| .597 | 6.214 | .04250 | .00000 | .02300 | .01980 | -.04250 | -.00320 | -.14180 |
| | GRADIENT | -.00062 | .00000 | .00000 | .00000 | .00062 | -.00000 | -.00083 |

RUN NO. 459/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|--------|--------|---------|
| .803 | -6.122 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.14180 |
| .802 | -2.034 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.15000 |
| .802 | -.987 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.15000 |
| .803 | .049 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.15000 |
| .802 | .534 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.15000 |
| .802 | 1.075 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.15000 |
| .801 | 2.123 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.15000 |
| .802 | 3.156 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.15000 |
| .802 | 4.195 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.15000 |
| .801 | 6.276 | .00000 | .00000 | .01150 | .02970 | .00000 | .01820 | -.17190 |
| .801 | 8.328 | .00000 | .00000 | .01150 | .02970 | .00000 | .01820 | -.17190 |
| | GRADIENT | .00000 | .00000 | .00000 | .00140 | .00000 | .00140 | -.00000 |

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OAI45 TABULATED FORCE DATA

PAGE 1535

AMES 118-1-11 OAI45A 01

(02F088) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 87.200 RUDDER = .000
 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 463/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|---------|--------|--------|---------|--------|---------|
| .902 | -6.116 | .01700 | .03060 | .01150 | .02970 | .01360 | .01820 | -.13360 |
| .902 | -1.966 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.15000 |
| .901 | -.921 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.15000 |
| .902 | .126 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.16090 |
| .901 | .649 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.16090 |
| .902 | 1.152 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.16090 |
| .901 | 2.202 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.17190 |
| .901 | 3.251 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.17190 |
| .900 | 4.294 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.18280 |
| .899 | 6.376 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.20460 |
| .899 | 8.440 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.21560 |
| | GRADIENT | .00000 | -.00169 | .00000 | .00000 | -.00169 | .00000 | -.00525 |

RUN NO. 474/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|---------|--------|--------|---------|--------|---------|
| .952 | -6.098 | .00850 | .04080 | .01150 | .04950 | .03230 | .03800 | -.07610 |
| .953 | -1.971 | .00850 | .02040 | .01150 | .04950 | .01190 | .03800 | -.14180 |
| .951 | -.924 | .00850 | .02040 | .01150 | .04950 | .01190 | .03800 | -.15000 |
| .950 | .138 | .01700 | .03060 | .01150 | .04950 | .01360 | .03800 | -.11710 |
| .952 | .644 | .01700 | .02040 | .01150 | .04950 | .00340 | .03800 | -.12540 |
| .951 | 1.157 | .01700 | .03060 | .01150 | .04950 | .01360 | .03800 | -.11710 |
| .951 | 2.211 | .01700 | .02040 | .01150 | .04950 | .00340 | .03800 | -.12540 |
| .950 | 3.255 | .01700 | .02040 | .01150 | .04950 | .00340 | .03800 | -.13360 |
| .949 | 4.297 | .01700 | .02040 | .01150 | .04950 | .00340 | .03800 | -.14180 |
| .948 | 6.373 | .01700 | .02040 | .01150 | .04950 | .00340 | .03800 | -.16090 |
| | GRADIENT | .00141 | -.00030 | .00000 | .00000 | -.00171 | .00000 | .00073 |

0A145 TABULATED FORCE DATA

AMES 118-1-11 0A145A 01

(02F088) (08 JUL 77)

REFERENCE DATA

| | | | |
|-------|---|-----------|--------|
| SREF | = | 2690.0000 | SQ.FT. |
| LREF | = | 474.8100 | INCHES |
| BREF | = | 936.6200 | INCHES |
| SCALE | = | .0500 | |

| | | | | |
|------|---|-----------|-----|----|
| XMRP | = | 1076.6800 | IN. | X0 |
| YMRP | = | .0000 | IN. | Y0 |
| ZMRP | = | 375.0000 | IN. | Z0 |

PARAMETRIC DATA

| | | | | | |
|--------|---|--------|--------|---|------|
| ALPHA | = | 5.000 | ELEVON | = | .000 |
| AILRON | = | .000 | BDFLAP | = | .000 |
| SPOBRK | = | 87.200 | RUDDER | = | .000 |
| RN/L | = | 5.000 | | | |

| RUN NO. | 487/ 0 | RN/L = | 4.97 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|---------|--------|--------|------|---------------------|--------|------|
|---------|--------|--------|------|---------------------|--------|------|

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|--------|---------|--------|---------|---------|---------|---------|
| 1.103 | -6.118 | .01700 | .01020 | .01150 | .02970 | -.00580 | .01820 | -.14180 |
| 1.102 | -1.959 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.18280 |
| 1.103 | -.901 | .02550 | .01020 | .01150 | .02970 | .01530 | .01820 | -.17190 |
| 1.102 | .080 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.14180 |
| 1.102 | .559 | .02550 | .01020 | .01150 | .01980 | .01530 | .00830 | -.14180 |
| 1.101 | 1.053 | .02550 | .01020 | .01150 | .02970 | .01530 | .01820 | -.14180 |
| 1.103 | 2.108 | .02550 | .00000 | .01150 | .01980 | -.02550 | .00830 | -.14180 |
| 1.101 | 3.146 | .02550 | .00000 | .01150 | .01980 | -.02550 | .00830 | -.15000 |
| 1.102 | 4.191 | .02500 | .00000 | .01150 | .01980 | .04250 | .00830 | -.15000 |
| 1.101 | 6.289 | .00000 | .00000 | .01150 | .01980 | .02550 | .00830 | -.14180 |
| GRADIENT | .00296 | .00324 | -.00197 | .00000 | -.00197 | -.00620 | -.00197 | .00468 |

| | | | | | |
|--------|--------|------|---------------------|--------|------|
| 488/ 0 | RN/L = | 4.96 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|--------|--------|------|---------------------|--------|------|

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELX | DRHL |
|-------|---------|--------|--------|--------|--------|--------|--------|---------|
| 1.202 | -6.999 | .0000 | .0240 | .01150 | .02970 | .02040 | .01820 | -1.3360 |
| 1.200 | -.952 | .00850 | .0240 | .01150 | .02970 | .01190 | .01820 | -1.6090 |
| 1.199 | -.900 | .01700 | .0240 | .01150 | .02970 | .00340 | .01820 | -1.7190 |
| 1.199 | .171 | .01700 | .0240 | .01150 | .02970 | .00340 | .01820 | -1.2540 |
| 1.201 | .625 | .01700 | .0240 | .01150 | .02970 | .00340 | .01820 | -1.2540 |
| 1.200 | 1.140 | .01700 | .0240 | .01150 | .02970 | .00340 | .01820 | -1.2540 |
| 1.199 | 2.189 | .00000 | .0240 | .01150 | .02970 | .02040 | .01820 | -1.2540 |
| 1.198 | 3.237 | .00850 | .0120 | .01150 | .02970 | .00170 | .01820 | -1.3360 |
| 1.198 | 4.282 | .00850 | .0120 | .01150 | .02970 | .00170 | .01820 | -1.5000 |
| 1.197 | 6.350 | .00850 | .0120 | .01150 | .02970 | .00170 | .02810 | -1.6090 |
| CANAL | - .0125 | - | - | .00000 | .00000 | - | .00000 | -.00348 |

| | | | |
|---------|---------|-------------|----------------------------------|
| RUN NO. | 504 / 0 | RN/L = 4.94 | GRADIENT INTERVAL = -5.00 / 5.00 |
|---------|---------|-------------|----------------------------------|

| MACH | BETA | ELV-LO | ELV-L1 | ELV-R0 | ELV-R1 | DELL | DELR | DRHL |
|-------|----------|---------|---------|---------|--------|---------|--------|---------|
| 1.402 | -6.132 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | -1.5000 |
| 1.405 | -1.977 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | -.08430 |
| 1.404 | -.926 | .00000 | .02040 | .02300 | .01980 | .02040 | .00320 | -1.0890 |
| 1.404 | .150 | .00000 | .02040 | .02300 | .01980 | .02040 | .00320 | -1.0890 |
| 1.403 | .628 | .00000 | .02040 | .02300 | .01980 | .02040 | .00320 | -1.0070 |
| 1.403 | 1.154 | .00000 | .01020 | .02300 | .01980 | .01020 | .00320 | -1.0070 |
| 1.403 | 2.213 | .00000 | .00000 | .02300 | .01980 | .00000 | .00320 | -1.2540 |
| 1.403 | 3.269 | .00000 | .00000 | .01150 | .01980 | .00000 | .00830 | -1.5000 |
| 1.402 | 4.318 | -.01010 | .00000 | .01150 | .01980 | .01010 | .00830 | -1.5000 |
| 1.402 | 6.404 | -.01010 | .00000 | .01150 | .01980 | .01010 | .00830 | -1.9370 |
| | GRADIENT | -.00105 | -.00429 | -.00085 | .00000 | -.00324 | .00085 | -.01028 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1537

AMES 118-1-11 0A145A 01

(02F089) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.6800 IN. XO ALPHA = 10.000 ELEVON = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BDFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPOBRK = 87.200 RUDDER = .000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 455/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|---------|---------|--------|---------|--------|---------|
| .598 | -6.037 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.15000 |
| .598 | -1.985 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.15000 |
| .597 | -.968 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.15000 |
| .598 | .060 | .01700 | .02040 | .01150 | .01980 | .00340 | .00830 | -.15000 |
| .598 | .556 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.15000 |
| .598 | 1.057 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.15000 |
| .597 | 2.088 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.15000 |
| .598 | 3.113 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.15000 |
| .598 | 4.154 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.16090 |
| .598 | 6.220 | .01700 | .00000 | .01150 | .01980 | -.01700 | .00830 | -.16090 |
| .598 | 8.205 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -.15000 |
| .598 | GRADIENT | .00000 | -.00033 | -.00000 | .00000 | -.00033 | .00000 | -.00116 |

RUN NO. 469/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|---------|--------|--------|---------|--------|---------|
| .902 | -6.127 | .00850 | .02040 | .01150 | .04950 | .01190 | .03800 | -.15000 |
| .903 | -2.025 | .00000 | .02040 | .01150 | .04950 | .02040 | .03800 | -.18280 |
| .901 | -.995 | .01700 | .02040 | .01150 | .04950 | .00340 | .03800 | -.11710 |
| .901 | .049 | .00850 | .02040 | .01150 | .04950 | .01190 | .03800 | -.12540 |
| .903 | .550 | .00850 | .02040 | .01150 | .04950 | .01190 | .03800 | -.12540 |
| .901 | 1.059 | .00850 | .01020 | .01150 | .04950 | .00170 | .03800 | -.13360 |
| .901 | 2.107 | .00850 | .01020 | .01150 | .04950 | .00170 | .03800 | -.14180 |
| .902 | 3.150 | .01700 | .00000 | .01150 | .04950 | -.01700 | .03800 | -.09250 |
| .899 | 4.208 | .00850 | .02040 | .01150 | .04950 | .01190 | .03800 | -.10070 |
| .900 | 6.298 | .01700 | .02040 | .01150 | .04950 | .00340 | .03800 | -.13360 |
| .902 | 8.379 | .01700 | .02040 | .01150 | .04950 | .00340 | .03800 | -.16090 |
| .902 | GRADIENT | .00089 | -.00182 | .00000 | .00000 | -.00270 | .00000 | .00950 |

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OAI145 TABULATED FORCE DATA

PAGE 1538

AMES 118-1-11 OAI145A 01

(02F089) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 10.000 ELEVON = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BDFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPBRK = 87.200 RUDDER = .000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 480/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|---------|--------|---------|
| .950 | -6.126 | .00850 | .02040 | .01150 | .02970 | .01190 | .01820 | -.07610 |
| .953 | -2.032 | .00850 | .00000 | .01150 | .02970 | -.00850 | .01820 | -.15000 |
| .950 | -.997 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.16090 |
| .952 | .049 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.14180 |
| .952 | .554 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.12540 |
| .951 | 1.064 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.11710 |
| .951 | 2.134 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.13360 |
| .950 | 3.159 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.15000 |
| .950 | 4.219 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.19370 |
| .948 | 6.308 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.14180 |
| .950 | 8.385 | .00850 | .00000 | .01150 | .02970 | -.00850 | .01820 | .00247 |
| | GRADIENT | .00000 | .00102 | .00000 | .00000 | .00102 | .00000 | |

RUN NO. 507/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|---------|--------|--------|---------|---------|---------|
| 1.199 | -6.133 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | .05540 |
| 1.203 | -2.042 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -.14180 |
| 1.202 | -1.005 | .00850 | .02040 | .01150 | .01980 | .01190 | .00830 | -.16090 |
| 1.199 | .050 | .00000 | .03060 | .02300 | .01980 | .03060 | -.00320 | -.16090 |
| 1.200 | .554 | .00000 | .03060 | .01150 | .01980 | .03060 | .00830 | -.16090 |
| 1.200 | 1.069 | .00000 | .03060 | .01150 | .01980 | .03060 | .00830 | -.15000 |
| 1.198 | 2.125 | .00850 | .02040 | .02300 | .01980 | .01190 | -.00320 | -.16090 |
| 1.199 | 3.174 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -.16090 |
| 1.196 | 4.234 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | -.15000 |
| 1.197 | 6.328 | .00850 | .02040 | .01150 | .01980 | .01190 | .00830 | -.15000 |
| 1.198 | 8.407 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -.19370 |
| | GRADIENT | .00068 | -.00016 | .00005 | .00000 | -.00084 | -.00005 | -.00074 |

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OAI45 TABULATED FORCE DATA

PAGE 1539

(02F089) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 10.000 ELEVON = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BDFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPOBRK = 87.200 RUDDER = .000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 496/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|--------|---------|---------|--------|---------|---------|
| 1.404 | -6.177 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.17190 |
| 1.409 | -2.049 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.22650 |
| 1.401 | -1.013 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.23740 |
| 1.400 | .044 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.23740 |
| 1.399 | .554 | .00850 | .01020 | .01150 | .01980 | .01170 | .00830 | -.25930 |
| 1.399 | 1.070 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -.25930 |
| 1.400 | 2.131 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.20460 |
| 1.399 | 3.184 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.16090 |
| 1.400 | 4.248 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.17190 |
| 1.400 | 6.355 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.20460 |
| 1.400 | 8.446 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -.19370 |
| 1.400 | GRADIENT | -.00011 | .00000 | -.00000 | -.00031 | .00011 | -.00031 | .01252 |

AMES 118-1-11 OAI45A 01

(02F0C0) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 15.000 ELEVON = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BDFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPOBRK = 87.200 RUDDER = .000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 456/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|---------|--------|---------|---------|---------|
| .598 | -6.082 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -.15000 |
| .597 | -1.993 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.15000 |
| .598 | -.957 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.15000 |
| .597 | .089 | .01700 | .00000 | .02300 | .01980 | -.01700 | -.00320 | -.15000 |
| .598 | .595 | .01700 | .00000 | .01150 | .01980 | -.01700 | .00830 | -.15000 |
| .598 | 1.106 | .01700 | .00000 | .01150 | .01980 | -.01700 | .00830 | -.15000 |
| .597 | 2.130 | .01700 | .00000 | .01150 | .01980 | -.01700 | .00830 | -.15000 |
| .598 | 3.165 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.15000 |
| .597 | 4.209 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.15000 |
| .599 | 6.271 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.15000 |
| .599 | 8.339 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -.16090 |
| .599 | GRADIENT | .00000 | .00009 | -.00037 | .00000 | .00009 | .00037 | -.00000 |

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OAI45 TABULATED FORCE DATA

PAGE 1540

AMES 118-1-11 OAI45A 01

(D2F0C0) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 15.000 ELEVON = .000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BDFLAP = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPOBRK = 87.200 RUDDER = .000
SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 470/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|--------|--------|---------|--------|---------|
| .902 | -6.180 | .01700 | .01020 | .01150 | .04950 | -.00680 | .03800 | -.10890 |
| .901 | -2.033 | .01700 | .02040 | .01150 | .04950 | .00340 | .03800 | -.13360 |
| .901 | -.987 | .01700 | .02040 | .01150 | .04950 | .00340 | .03800 | -.14180 |
| .901 | .067 | .01700 | .01020 | .01150 | .04950 | -.00680 | .03800 | -.15000 |
| .902 | .584 | .01700 | .01020 | .01150 | .04950 | -.00680 | .03800 | -.15000 |
| .899 | 1.099 | .01700 | .02040 | .01150 | .04950 | .00340 | .03800 | -.15000 |
| .902 | 2.135 | .01700 | .02040 | .01150 | .04950 | .00340 | .03800 | -.15000 |
| .902 | 3.182 | .00850 | .02040 | .01150 | .04950 | .01190 | .03800 | -.14180 |
| .901 | 4.238 | .00850 | .01020 | .01150 | .04950 | .00170 | .03800 | -.10070 |
| .903 | 6.324 | .00850 | .02040 | .01150 | .04950 | .01190 | .03800 | -.10070 |
| .900 | 8.413 | .00850 | .01020 | .01150 | .04950 | .00170 | .03800 | -.09250 |
| | GRADIENT | -.00148 | -.00059 | .00000 | .00000 | .00089 | .00000 | .00353 |

RUN NO. 508/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|--------|--------|---------|---------|
| 1.198 | -6.183 | .00000 | .02040 | .02300 | .01980 | .02040 | -.00320 | -.15000 |
| 1.202 | -2.053 | .00000 | .01020 | .02300 | .01980 | .01020 | -.00320 | -.19370 |
| 1.200 | -1.002 | .00000 | .01020 | .02300 | .01980 | .01020 | -.00320 | -.15000 |
| 1.199 | .061 | .00000 | .02040 | .02300 | .01980 | .02040 | -.00320 | -.15000 |
| 1.199 | .575 | .00000 | .02040 | .01150 | .01980 | .00830 | .00830 | -.15000 |
| 1.198 | 1.103 | .00000 | .03060 | .02300 | .01980 | .03060 | -.00320 | -.15000 |
| 1.197 | 2.145 | .00000 | .03060 | .02300 | .01980 | .03060 | -.00320 | -.15000 |
| 1.198 | 3.198 | .00000 | .03060 | .02300 | .01980 | .03060 | -.00320 | -.15000 |
| 1.199 | 4.254 | .00000 | .03060 | .02300 | .01980 | .03060 | -.00320 | -.15000 |
| 1.199 | 6.344 | .00000 | .03060 | .01150 | .01980 | .03060 | .00830 | -.15000 |
| 1.197 | 8.434 | .00000 | .03060 | .01150 | .01980 | .03060 | .00830 | -.15000 |
| | GRADIENT | .00000 | .00383 | .00017 | .00000 | .00383 | -.00017 | .00434 |

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OAI45 TABULATED FORCE DATA

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(D2F0C1) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 15.000 ELEVON = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BDFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO RNU/L = 87.200 RUDDER = .000
 SCALE = .0500

PARAMETRIC DATA

RUN NO. 497/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|--------|--------|--------|---------|
| 1.391 | -6.238 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | .04710 |
| 1.397 | -2.069 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | .01430 |
| 1.399 | -1.006 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.00210 |
| 1.398 | .059 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.00210 |
| 1.396 | .586 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.00210 |
| 1.396 | 1.105 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.01040 |
| 1.395 | 2.156 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.01860 |
| 1.394 | 3.210 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.02580 |
| 1.393 | 4.276 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.04320 |
| 1.391 | 6.378 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.06790 |
| 1.390 | 8.474 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -.14180 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.00816 |

AMES 118-1-11 OAI45A 01

(D2F0C1) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = .000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO BDFLAP = .000 SPDBRK = 87.200
 SCALE = .0500

PARAMETRIC DATA

RUN NO. 453/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|---------|--------|---------|---------|---------|-----------|
| .598 | -10.072 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -12.21000 |
| .598 | -5.111 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -6.21910 |
| .598 | -2.524 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -3.07360 |
| .598 | -.096 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -.11710 |
| .598 | 2.393 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | 2.91440 |
| .598 | 4.977 | .01700 | .00000 | .01150 | .01980 | -.01700 | .00830 | 6.05630 |
| .598 | 9.828 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | 11.91700 |
| | GRADIENT | .00136 | -.00124 | .00000 | -.00118 | -.00260 | -.00118 | 1.21724 |

AMES 118-1-11 OAI45A 01

(02F0C1) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = .000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = 87.200
 RN/L = 5.000

RUN NO. 471/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|--------|--------|-----------|
| .902 | -10.072 | .00000 | .01020 | .01150 | .04950 | .01020 | .03800 | -12.21000 |
| .902 | -5.126 | .00000 | .01020 | .01150 | .04950 | .01020 | .03800 | -6.23730 |
| .902 | -2.507 | .00000 | .01020 | .01150 | .04950 | .01020 | .03800 | -3.05380 |
| .902 | -1.103 | .00000 | .01020 | .01150 | .04950 | .01020 | .03800 | -1.2540 |
| .902 | 2.401 | .00000 | .01020 | .01150 | .04950 | .01020 | .03800 | 2.92490 |
| .901 | 4.977 | .00000 | .01020 | .01150 | .04950 | .01020 | .03800 | 6.05630 |
| .902 | 9.828 | .00000 | .01020 | .01150 | .04950 | .01020 | .03800 | 11.91700 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | 1.21725 |

RUN NO. 482/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|--------|--------|-----------|
| .951 | -10.054 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | -12.18800 |
| .952 | -5.111 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | -6.21910 |
| .952 | -2.532 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | -3.08350 |
| .952 | -1.110 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | -1.3360 |
| .951 | 2.410 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | 2.93530 |
| .952 | 4.959 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | 6.03390 |
| .952 | 9.828 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | 11.91700 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | 1.21727 |

RUN NO. 509/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|--------|---------|---------|-----------|
| 1.204 | -10.063 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | -12.19900 |
| 1.200 | -5.111 | .00000 | .03060 | .01150 | .01980 | .03060 | .00830 | -6.21910 |
| 1.199 | -2.524 | .00000 | .03060 | .01150 | .01980 | .03060 | .00830 | -3.07360 |
| 1.200 | -1.089 | .00000 | .03060 | .01150 | .01980 | .03060 | .00830 | -1.10890 |
| 1.199 | 2.410 | .00850 | .03060 | .02300 | .01980 | .02210 | -.00320 | 2.93530 |
| 1.200 | 4.949 | .00000 | .03060 | .01150 | .01980 | .03060 | .00830 | 6.02270 |
| 1.199 | 9.804 | .00850 | .03060 | .01150 | .01980 | .02210 | .00830 | 11.88800 |
| | GRADIENT | .00033 | .00000 | .00045 | .00000 | -.00033 | -.00045 | 1.21727 |

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OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(D2F0C2) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPOBRK = 87.200
 RN/L = 5.000

RUN NO. 452/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00
 MACH
 RUDDER
 -10.045
 -5.141
 -2.499
 -.089
 2.410
 4.949
 9.804
 GRADIENT
 ELV-LO
 .00850
 .00850
 .00850
 .00850
 .00850
 .00850
 .00850
 .00000
 ELV-LI
 .01020
 .01020
 .01020
 .01020
 .01020
 .01020
 .01020
 .00000
 ELV-RO
 .01150
 .01150
 .01150
 .01150
 .01150
 .01150
 .01150
 .00000
 ELV-RI
 .02970
 .02970
 .02970
 .02970
 .02970
 .02970
 .02970
 .00000
 DELL
 .00170
 .00170
 .00170
 .00170
 .00170
 .00170
 .00170
 .00000
 DELR
 .01820
 .01820
 .01820
 .01820
 .01820
 .01820
 .01820
 .00000
 DRHL
 -12.17800
 -6.25550
 -3.04390
 -.10890
 2.93530
 6.02270
 11.88800
 1.21727

RUN NO. 464/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00
 MACH
 RUDDER
 -10.063
 -5.119
 -2.532
 -.110
 2.419
 4.986
 9.812
 GRADIENT
 ELV-LO
 .00850
 .00850
 .00000
 .00000
 .01700
 .01700
 .00850
 .00201
 ELV-LI
 .01020
 .01020
 .01020
 .02040
 .02040
 .01020
 .02040
 -.00002
 ELV-RO
 .01150
 .01150
 .01150
 .01150
 .01150
 .01150
 .01150
 -.00000
 ELV-RI
 .02970
 .04950
 .04950
 .04950
 .04950
 .04950
 .04950
 -.00000
 DELL
 .00170
 .00170
 .01020
 .00340
 .00340
 -.00680
 .01190
 -.00204
 DELR
 .01820
 .03800
 .03800
 .03800
 .03800
 .03800
 .03800
 .00000
 DRHL
 -12.19900
 -6.22820
 -3.08350
 -.13360
 2.94580
 6.06750
 11.89800
 1.21725

RUN NO. 475/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00
 MACH
 RUDDER
 -10.045
 -5.111
 -2.516
 -.110
 2.401
 4.986
 9.820
 GRADIENT
 ELV-LO
 .01700
 .01700
 .01700
 .01700
 .01700
 .01700
 .01700
 .00000
 ELV-LI
 .04080
 .04080
 .04080
 .03060
 .04080
 .04080
 .04080
 .00042
 ELV-RO
 .01150
 .01150
 .01150
 .01150
 .01150
 .01150
 .01150
 .00000
 ELV-RI
 .04950
 .04950
 .04950
 .04950
 .04950
 .04950
 .04950
 .00000
 DELL
 .02380
 .02380
 .02380
 .01360
 .02380
 .02380
 .02380
 .00042
 DELR
 .03800
 .03800
 .03800
 .03800
 .03800
 .03800
 .03800
 .00000
 DRHL
 -12.17800
 -6.21910
 -3.06370
 -.13360
 2.92490
 6.06750
 11.90700
 1.21724

AMES 118-1-11 OAI45A 01

(DEF0C2) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BOFLAP = .000 SPOBRK = 87.200
 RN/L = 5.000

RUN NO. 490/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|--------|--------|--------|-----------|
| 1.201 | -10.072 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | -12.21000 |
| 1.200 | -5.104 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | -6.21000 |
| 1.200 | -2.467 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | -3.00430 |
| 1.200 | -.069 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | -.08430 |
| 1.199 | 2.410 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | 2.93530 |
| 1.200 | 4.931 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | 6.00020 |
| 1.201 | 9.804 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | 11.88800 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | 1.21725 |

RUN NO. 505/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|---------|--------|--------|--------|-----------|
| 1.402 | -10.045 | .00000 | .00000 | .01150 | .01980 | .00000 | .00830 | -12.17800 |
| 1.403 | -5.134 | .00000 | .00000 | .01150 | .01980 | .00000 | .00830 | -6.24640 |
| 1.403 | -2.516 | .00000 | .02040 | .02300 | .01980 | .02040 | .00320 | -3.06370 |
| 1.404 | -.089 | .00000 | .02040 | .02300 | .01980 | .02040 | .00320 | -.10890 |
| 1.403 | 2.357 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | 2.88290 |
| 1.403 | 4.977 | .00000 | .02040 | .02300 | .01980 | .02040 | .00320 | 6.05630 |
| 1.404 | 9.828 | .00000 | .03060 | .02300 | .01980 | .03060 | .00320 | 11.91700 |
| | GRADIENT | .00000 | .00000 | -.00044 | .00000 | .00000 | .00044 | 1.21724 |

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OAI45 TABULATED FORCE DATA

PAGE 1545

AMES 118-1-11 OAI45A 01

(02F0C3) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPOBRK = 87.200
 RN/L = 5.000

RUN NO. 454/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00
 MACH
 .997 RUDDER ELV-LO ELV-LI ELV-RO ELV-RI DELL DELR DRHL
 .997 -10.089 .06800 .01020 .01150 .01980 -.05780 .00830 -12.23100
 .997 -5.126 .06800 .01020 .01150 .01980 -.05780 .00830 -6.23730
 .998 -2.516 .06800 .01020 .01150 .01980 -.05780 .00830 -3.06370
 .997 -1.116 .06800 .01020 .01150 .01980 -.05780 .00830 -1.14180
 .997 2.401 .05950 .00000 .01150 .02970 -.05950 .00830 2.92490
 .998 4.977 .05950 .00000 .01150 .01980 -.05950 .00830 6.05630
 .998 9.844 .05950 .00000 .01150 .01980 -.05950 .00830 11.93600
 GRADIENT -.00136 -.00163 .00000 .00038 -.00027 .00038 -1.21724

RUN NO. 472/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00
 MACH
 .900 RUDDER ELV-LO ELV-LI ELV-RO ELV-RI DELL DELR DRHL
 .901 -10.063 .00850 .02040 .01150 .04950 .01190 .03800 -12.19900
 .902 -5.119 .00850 .02040 .01150 .04950 .01190 .03800 -6.22820
 .902 -2.507 .00850 .02040 .01150 .04950 .01190 .03800 -3.05380
 .903 -1.110 .00850 .02040 .01150 .04950 .01190 .03800 -1.13360
 .903 2.384 .00850 .02040 .01150 .04950 .01190 .03800 2.90390
 .903 4.959 .00000 .02040 .01150 .04950 .02040 .03800 6.03390
 .902 9.796 .00000 .02040 .01150 .04950 .02040 .03800 11.87900
 GRADIENT -.00104 .00000 .00000 .00000 .00104 .00000 1.21727

RUN NO. 481/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00
 MACH
 .952 RUDDER ELV-LO ELV-LI ELV-RO ELV-RI DELL DELR DRHL
 .951 -10.063 .00000 .01020 .01150 .02970 .01020 .01820 -12.19900
 .951 -5.119 .00000 .01020 .01150 .02970 .01020 .01820 -6.22820
 .953 -2.524 .00000 .01020 .01150 .02970 .01020 .01820 -3.07360
 .951 -1.116 .00000 .00000 .01150 .02970 .00000 .01820 -1.14180
 .951 2.410 .00850 .00000 .01150 .02970 -.00850 .01820 2.93530
 .951 4.977 .00000 .00000 .01150 .02970 .00000 .01820 6.05630
 .951 9.804 .00000 .00000 .01150 .02970 .00000 .01820 11.88800
 GRADIENT .00033 -.00121 .00000 .00000 -.00154 .00000 1.21724

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1546

AMES 118-1-11 OAI45A 01

(D2F0C3) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 10.000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 AILRON = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO BDFLAP = .000 SPDBRK = 87.200
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 510/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|--------|-------|--------|----------|
| 1.200 | -10.063 | .0000 | .0306 | .0115 | .0198 | .0306 | .0083 | -12.1990 |
| 1.200 | -5.126 | .0000 | .0306 | .0230 | .0198 | .0306 | .0032 | -6.2373 |
| 1.199 | -2.524 | .0000 | .0306 | .0115 | .0198 | .0306 | .0083 | -3.0736 |
| 1.200 | -1.103 | .0000 | .0306 | .0115 | .0198 | .0306 | .0083 | -1.2540 |
| 1.200 | 2.376 | .0000 | .0306 | .0230 | .0198 | .0306 | .0032 | 2.8934 |
| 1.200 | 4.959 | .0000 | .0306 | .0230 | .0198 | .0306 | .0032 | 6.0339 |
| 1.200 | 9.804 | .0000 | .0306 | .0230 | .0198 | .0306 | .0032 | 11.8880 |
| | GRADIENT | .0000 | .0000 | .00184 | .0000 | .0000 | .00184 | 1.21726 |

RUN NO. 499/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|--------|---------|-------|----------|
| 1.403 | -9.919 | .0085 | .0204 | .0115 | .0198 | .0119 | .0083 | -12.0270 |
| 1.404 | -5.126 | .0085 | .0306 | .0115 | .0198 | .0210 | .0083 | -6.2373 |
| 1.405 | -2.516 | .0085 | .0306 | .0115 | .0198 | .0210 | .0083 | -3.0637 |
| 1.406 | -.062 | .0170 | .0306 | .0115 | .0198 | .0136 | .0083 | -.0761 |
| 1.404 | 2.401 | .0170 | .0306 | .0115 | .0198 | .0136 | .0083 | 2.9249 |
| 1.404 | 4.959 | .0170 | .0306 | .0115 | .0198 | .0136 | .0083 | 6.0339 |
| 1.403 | 9.820 | .0170 | .0306 | .0115 | .0198 | .0136 | .0083 | 11.9070 |
| | GRADIENT | .00102 | .0000 | .0000 | .0000 | -.00102 | .0000 | 1.21726 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

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AMES 118-1-11 0A145A 01

(02F0C4) (08 JUL 77)

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 15.000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 AILRON = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO BN/LAP = .000 SPDRK = 87.200
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 511/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|--------|--------|---------|-----------|
| 1.197 | -10.054 | .00000 | .02040 | .02300 | .01980 | .02040 | -.00320 | -12.16800 |
| 1.199 | -5.126 | .00000 | .01020 | .02300 | .01980 | .01020 | -.00320 | -6.23730 |
| 1.200 | -2.532 | .00000 | .02040 | .02300 | .01980 | .02040 | -.00320 | -3.08350 |
| 1.197 | -1.110 | .00000 | .02040 | .02300 | .01980 | .02040 | -.00320 | -1.13360 |
| 1.199 | 2.376 | .00000 | .02040 | .02300 | .02970 | .02040 | .00670 | 2.89340 |
| 1.199 | 4.959 | .00000 | .02040 | .02300 | .01980 | .02040 | -.00320 | 6.03390 |
| 1.200 | 9.812 | .00000 | .02040 | .02300 | .01980 | .02040 | -.00320 | 11.89800 |
| | GRADIENT | .00000 | .00000 | .00000 | .00038 | .00000 | .00038 | 1.21727 |

RUN NO. 498/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|---------|--------|--------|---------|---------|-----------|
| 1.397 | -10.107 | .00000 | .00000 | .01150 | .01980 | .00000 | .00830 | -12.25300 |
| 1.397 | -5.104 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | -6.21000 |
| 1.395 | -2.483 | .00000 | .02040 | .01150 | .00990 | .02040 | -.00160 | -3.02410 |
| 1.397 | -.096 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -1.11710 |
| 1.395 | 2.436 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | 2.96680 |
| 1.394 | 4.977 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | 6.05630 |
| 1.395 | 9.780 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | 11.85900 |
| | GRADIENT | .00000 | -.00121 | .00000 | .00118 | -.00121 | .00118 | 1.21725 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(02F0C5) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 87.200 RUDDER = -5.000
 RN/L = 5.000

RUN NO. 451/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|--------|---------|--------|---------|--------|----------|
| .597 | -5.027 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -6.21910 |
| .598 | -.035 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -6.21910 |
| .597 | 2.523 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -6.21000 |
| .596 | 5.042 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -6.20090 |
| .595 | 7.088 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -6.21910 |
| .596 | 8.125 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -6.22820 |
| .595 | 10.188 | .05100 | .01020 | .01150 | .02970 | -.03230 | .01820 | -6.22820 |
| .597 | 12.232 | .04250 | .01020 | .01150 | .02970 | -.00680 | .01820 | -6.22820 |
| .596 | 15.276 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -6.22820 |
| | GRADIENT | -.00000 | .00000 | -.00000 | .00000 | .00000 | .00000 | .00356 |

RUN NO. 465/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|---------|--------|---------|--------|----------|
| .902 | -5.257 | .01700 | .02040 | .01150 | .04950 | -.00680 | .03800 | -6.22820 |
| .903 | .060 | .01700 | .02040 | .01150 | .04950 | .00340 | .03800 | -6.21000 |
| .904 | 2.478 | .01700 | .02040 | .01150 | .04950 | .00340 | .03800 | -6.21000 |
| .902 | 4.957 | .01700 | .02040 | .01150 | .04950 | .00340 | .03800 | -6.20090 |
| .902 | 6.976 | .01700 | .02040 | .01150 | .04950 | .00340 | .03800 | -6.22820 |
| .900 | 7.972 | .01700 | .02040 | .01150 | .04950 | .00340 | .03800 | -6.21910 |
| .901 | 9.977 | .01700 | .02040 | .01150 | .04950 | .00340 | .03800 | -6.21000 |
| .902 | 11.928 | .01700 | .02040 | .01150 | .03960 | -.00680 | .02810 | -6.21910 |
| .901 | 14.820 | .01700 | .02040 | .01150 | .03960 | .00340 | .02810 | -6.23730 |
| | GRADIENT | .00000 | .00000 | -.00000 | .00000 | .00000 | .00000 | .00557 |

RUN NO. 476/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|--------|---------|--------|--------|--------|----------|
| .953 | -5.097 | .00850 | .02040 | .01150 | .04950 | .01190 | .03800 | -6.19180 |
| .952 | -.466 | .00850 | .02040 | .01150 | .04950 | .01190 | .03800 | -6.21910 |
| .953 | 2.284 | .00850 | .02040 | .01150 | .04950 | .01190 | .03800 | -6.21910 |
| .951 | 4.929 | .00000 | .03060 | .01150 | .04950 | .03060 | .03800 | -5.21000 |
| .951 | 7.054 | .00850 | .03060 | .01150 | .04950 | .02210 | .03800 | -6.21000 |
| .950 | 8.061 | .01700 | .03060 | .01150 | .04950 | .01360 | .03800 | -6.21910 |
| .952 | 10.143 | .00850 | .01020 | .01150 | .04950 | .00170 | .03800 | -6.21910 |
| .952 | 12.048 | .00850 | .03060 | .01150 | .04950 | .02210 | .03800 | -6.21910 |
| .951 | 15.034 | .00850 | .02040 | .01150 | .04950 | .01190 | .03800 | -6.21910 |
| | GRADIENT | -.00157 | .00188 | -.00000 | .00000 | .00344 | .00000 | .00168 |

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AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BOFLAP = .000
SPDBRK = 87.200 RUDDER = -5.000
RN/L = 5.000

RUN NO. 491/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|--------|--------|--------|----------|
| 1.200 | -5.196 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | -6.22820 |
| 1.200 | -1.168 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -6.22820 |
| 1.200 | 2.410 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -6.21910 |
| 1.196 | 4.992 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -6.21910 |
| 1.198 | 7.057 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -6.21910 |
| 1.199 | 8.094 | .00000 | .00000 | .01150 | .02970 | .00000 | .01820 | -6.21000 |
| 1.202 | 10.129 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -6.20090 |
| 1.202 | 12.152 | .00000 | .00000 | .01150 | .03960 | .00000 | .02810 | -6.19180 |
| 1.199 | 15.184 | .00000 | .00000 | .01150 | .03960 | .00000 | .02810 | -6.20090 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00176 |

RUN NO. 501/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|--------|---------|---------|---------|---------|----------|
| 1.402 | -5.088 | .01700 | .02040 | .01150 | .01980 | .00340 | .00830 | -6.18270 |
| 1.401 | -0.032 | .00850 | .03060 | .01150 | .01980 | .02210 | .00830 | -6.15550 |
| 1.400 | 2.494 | .00850 | .03060 | .01150 | .01980 | .02210 | .00830 | -6.14640 |
| 1.400 | 5.077 | .00850 | .02040 | .01150 | .01980 | .01190 | .00830 | -6.14640 |
| 1.403 | 7.183 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -6.11910 |
| 1.402 | 8.181 | .00000 | .02040 | .01150 | .00990 | .02040 | .00160 | -6.11000 |
| 1.400 | 10.236 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -6.09180 |
| 1.397 | 12.227 | .00850 | .02040 | .01150 | .01980 | .01190 | .00830 | -6.22820 |
| 1.394 | 15.280 | .00850 | .02040 | .01150 | .01980 | .01190 | .00830 | -6.21000 |
| | GRADIENT | -.00000 | .00000 | -.00000 | -.00000 | -.00000 | -.00000 | .00360 |

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OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(02F0C6) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 87.200 RUDDER = -5.000
 RN/L = 5.000

RUN NO. 448/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00
 MACH .598
 BETA -6.016
 ELV-LO .05100
 ELV-LI .00000
 ELV-RO .02300
 ELV-RI .01980
 DELR -.00320
 DRHL -6.26450
 .597
 BETA -1.917
 ELV-LO .05100
 ELV-LI .00000
 ELV-RO .02300
 ELV-RI .01980
 DELR -.00320
 DRHL -6.28270
 .597
 BETA -.877
 ELV-LO .05100
 ELV-LI .00000
 ELV-RO .02300
 ELV-RI .01980
 DELR -.00320
 DRHL -6.28270
 .597
 BETA .031
 ELV-LO .05100
 ELV-LI .00000
 ELV-RO .02300
 ELV-RI .01980
 DELR -.00320
 DRHL -6.27360
 .597
 BETA .510
 ELV-LO .05100
 ELV-LI .00000
 ELV-RO .02300
 ELV-RI .01980
 DELR -.00320
 DRHL -6.28270
 .597
 BETA 1.020
 ELV-LO .05100
 ELV-LI .00000
 ELV-RO .02300
 ELV-RI .01980
 DELR -.00320
 DRHL -6.28270
 .597
 BETA 2.085
 ELV-LO .05100
 ELV-LI .00000
 ELV-RO .02300
 ELV-RI .01980
 DELR -.00320
 DRHL -6.27360
 .597
 BETA 3.128
 ELV-LO .05100
 ELV-LI .00000
 ELV-RO .02300
 ELV-RI .01980
 DELR -.00320
 DRHL -6.27360
 .597
 BETA 4.161
 ELV-LO .05950
 ELV-LI .00000
 ELV-RO .02300
 ELV-RI .01980
 DELR -.00320
 DRHL -6.26450
 .597
 BETA 6.218
 ELV-LO .00000
 ELV-LI .00000
 ELV-RO .02300
 ELV-RI .02970
 DELR .00670
 DRHL -6.26450
 GRADIENT .00092
 .00055
 .00149

RUN NO. 465/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00
 MACH .903
 BETA -6.109
 ELV-LO .00850
 ELV-LI .02040
 ELV-RO .01150
 ELV-RI .03960
 DELR .02810
 DRHL -6.21910
 .902
 BETA -1.952
 ELV-LO .00000
 ELV-LI .02040
 ELV-RO .01150
 ELV-RI .03960
 DELR .02810
 DRHL -6.21000
 .902
 BETA -.904
 ELV-LO .00850
 ELV-LI .02040
 ELV-RO .01150
 ELV-RI .04950
 DELR .03800
 DRHL -6.19180
 .903
 BETA .009
 ELV-LO .00850
 ELV-LI .01020
 ELV-RO .01150
 ELV-RI .03960
 DELR .02810
 DRHL -6.21910
 .901
 BETA .663
 ELV-LO .00850
 ELV-LI .01020
 ELV-RO .01150
 ELV-RI .04950
 DELR .03800
 DRHL -6.21910
 .902
 BETA 1.171
 ELV-LO .00850
 ELV-LI .01020
 ELV-RO .01150
 ELV-RI .04950
 DELR .03800
 DRHL -6.22820
 .902
 BETA 2.216
 ELV-LO .00850
 ELV-LI .01020
 ELV-RO .01150
 ELV-RI .04950
 DELR .03800
 DRHL -6.24640
 1.144
 BETA 3.259
 ELV-LO .00850
 ELV-LI .01020
 ELV-RO .01150
 ELV-RI .04950
 DELR .03800
 DRHL -6.25550
 .904
 BETA 4.304
 ELV-LO .00850
 ELV-LI .01020
 ELV-RO .01150
 ELV-RI .04950
 DELR .03800
 DRHL -6.26450
 .899
 BETA 6.380
 ELV-LO .00084
 ELV-LI -.00273
 ELV-RO .00000
 ELV-RI .00133
 DELR -.00356
 DRHL -.01094
 GRADIENT

RUN NO. 477/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00
 MACH .953
 BETA -6.085
 ELV-LO .00850
 ELV-LI .02040
 ELV-RO .01150
 ELV-RI .02970
 DELR .01820
 DRHL -6.19180
 .953
 BETA -1.951
 ELV-LO .00850
 ELV-LI .02040
 ELV-RO .01150
 ELV-RI .02970
 DELR .01820
 DRHL -6.23730
 .950
 BETA -.906
 ELV-LO .00850
 ELV-LI .02040
 ELV-RO .01150
 ELV-RI .02970
 DELR .01820
 DRHL -6.23730
 .950
 BETA .151
 ELV-LO .00850
 ELV-LI .01020
 ELV-RO .01150
 ELV-RI .02970
 DELR .01820
 DRHL -6.24640
 .951
 BETA .662
 ELV-LO .00850
 ELV-LI .01020
 ELV-RO .01150
 ELV-RI .02970
 DELR .01820
 DRHL -6.24640
 .952
 BETA 1.179
 ELV-LO .01700
 ELV-LI .01020
 ELV-RO .01150
 ELV-RI .02970
 DELR .01820
 DRHL -6.25550
 .951
 BETA 2.226
 ELV-LO .01700
 ELV-LI .01020
 ELV-RO .01150
 ELV-RI .02970
 DELR .01820
 DRHL -6.28270
 .951
 BETA 3.264
 ELV-LO .01700
 ELV-LI .01020
 ELV-RO .01150
 ELV-RI .02970
 DELR .01820
 DRHL -6.28270
 .949
 BETA 4.304
 ELV-LO .01700
 ELV-LI .01020
 ELV-RO .01150
 ELV-RI .02970
 DELR .01820
 DRHL -1.00240
 .950
 BETA 6.372
 ELV-LO .01700
 ELV-LI .01020
 ELV-RO .01150
 ELV-RI .02970
 DELR .01820
 DRHL -.00816
 GRADIENT .00181
 -.00275
 .00000
 .00055

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(D2F0C6) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 87.200 RUDDER = -5.000
 RN/L = 5.000

RUN NO. 492/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|--------|---------|--------|----------|
| 1.200 | -6.075 | .00000 | .02040 | .01150 | .03960 | .02040 | .02810 | -6.18270 |
| 1.199 | -1.943 | .00000 | .01020 | .01150 | .03960 | .01020 | .02810 | -6.23730 |
| 1.199 | -.902 | .00000 | .01020 | .01150 | .03960 | .01020 | .02810 | -6.25550 |
| 1.198 | .154 | .00000 | .01020 | .01150 | .03960 | .01020 | .02810 | -6.27360 |
| 1.198 | .631 | .00000 | .01020 | .01150 | .03960 | .01020 | .02810 | -6.27360 |
| 1.198 | 1.151 | .00000 | .01020 | .01150 | .03960 | .01020 | .02810 | -6.29180 |
| 1.198 | 2.198 | .00000 | .01020 | .01150 | .03960 | .01020 | .02810 | -6.30390 |
| 1.198 | 3.245 | .01700 | .01020 | .01150 | .03960 | -.00680 | .02810 | -6.31000 |
| 1.200 | 4.283 | .01700 | .01020 | .01150 | .03960 | -.00680 | .02810 | -6.31000 |
| 1.198 | 6.355 | .00000 | .00000 | .01150 | .03960 | .00000 | .02810 | -6.38270 |
| | GRADIENT | .00298 | .00000 | .00000 | .00000 | -.00298 | .00000 | -.01125 |

RUN NO. 502/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|--------|--------|---------|--------|---------|----------|
| 1.403 | -6.247 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | -6.28270 |
| 1.405 | -2.086 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -6.36450 |
| 1.404 | -1.035 | .00850 | .01020 | .01150 | .01980 | .00170 | .00830 | -6.19180 |
| 1.403 | .016 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -6.31910 |
| 1.403 | .652 | .00000 | .01020 | .01150 | .01980 | .01020 | .00830 | -6.32820 |
| 1.403 | 1.215 | .00000 | .00000 | .01150 | .00990 | .00000 | -.00160 | -6.32820 |
| 1.403 | 2.212 | .00000 | .01020 | .01150 | .00990 | .01020 | -.00160 | -6.28270 |
| 1.403 | 3.275 | .00000 | .02040 | .01150 | .00990 | .02040 | -.00160 | -6.27360 |
| 1.401 | 4.322 | .00000 | .02040 | .01150 | .00990 | .02040 | -.00160 | -6.30090 |
| 1.401 | 6.409 | .00000 | .02040 | .01150 | .00990 | .02040 | -.00160 | -6.34640 |
| | GRADIENT | -.00138 | .00167 | .00000 | -.00206 | .00305 | -.00206 | .00242 |

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0A145 TABULATED FORCE DATA

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AMES 118-1-11 0A145A 01

(02F0C7) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 FLEVON = .000
ATLRON = .000 BDFLAP = .000
SPDBRK = 87.200 RUDDER = -10.000
RN/L = 5.000

RUN NO. 449/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|--------|---------|-----------|
| .597 | -6.017 | .00000 | .00000 | .01150 | .02970 | .00000 | .01820 | -12.18800 |
| .597 | -1.911 | .00000 | .00000 | .01150 | .01980 | .00000 | .00830 | -12.18800 |
| .597 | -.872 | .00000 | .00000 | .01150 | .01980 | .00000 | .00830 | -12.19900 |
| .598 | .035 | .00000 | .00000 | .01150 | .02970 | .00000 | .01820 | -12.19900 |
| .597 | .508 | .00000 | .00000 | .02300 | .02970 | .00000 | .00670 | -12.19900 |
| .597 | 1.029 | .00000 | .00000 | .02300 | .02970 | .00000 | .00670 | -12.19900 |
| .597 | 2.093 | .00000 | .00000 | .02300 | .02970 | .00000 | .00670 | -12.21000 |
| .597 | 3.134 | .00000 | .00000 | .02300 | .02970 | .00000 | .00670 | -12.21000 |
| .597 | 4.166 | .00000 | .00000 | .02300 | .02970 | .00000 | .00670 | -12.22100 |
| .596 | 6.222 | .00000 | .00000 | .02300 | .01980 | .00000 | -.00320 | -12.21000 |
| | GRADIENT | .00000 | .00000 | .00231 | .00165 | .00000 | -.00066 | -.00472 |

RUN NO. 467/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|---------|--------|--------|---------|--------|-----------|
| .905 | -6.104 | .00000 | .02040 | .01150 | .04950 | .02040 | .03800 | -12.12400 |
| .902 | -1.945 | .00000 | .01020 | .01150 | .04950 | .01020 | .03800 | -12.18800 |
| .902 | -.903 | .00000 | .01020 | .01150 | .04950 | .01020 | .03800 | -12.18800 |
| .902 | .143 | .00000 | .01020 | .01150 | .04950 | .01020 | .03800 | -12.18800 |
| .901 | .679 | .01700 | .02040 | .01150 | .04950 | .00340 | .03800 | -12.18800 |
| .901 | 1.181 | .01700 | .01020 | .01150 | .04950 | -.00680 | .03800 | -12.19900 |
| .902 | 2.226 | .01700 | .01020 | .01150 | .04950 | -.00680 | .03800 | -12.23100 |
| .901 | 3.266 | .01700 | .01020 | .01150 | .04950 | -.00680 | .03800 | -12.17800 |
| .901 | 4.307 | .01700 | .01020 | .01150 | .04950 | -.00680 | .03800 | -12.21000 |
| .900 | 6.384 | .01700 | .00000 | .01150 | .04950 | -.01700 | .03800 | -12.19900 |
| .898 | GRADIENT | .00337 | -.00015 | .00000 | .00000 | -.00351 | .00000 | -.00316 |

RUN NO. 493/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|---------|--------|---------|---------|--------|-----------|
| 1.198 | -6.064 | .00000 | .02040 | .01150 | .03960 | .02040 | .02810 | -12.18800 |
| 1.199 | -1.936 | .00000 | .00000 | .01150 | .03960 | .00000 | .02810 | -12.25300 |
| 1.200 | -.895 | .00000 | .02040 | .01150 | .03960 | .00000 | .02810 | -12.24200 |
| 1.197 | .163 | .00000 | .02040 | .01150 | .03960 | .02040 | .02810 | -12.24200 |
| 1.201 | .638 | .00000 | .02040 | .01150 | .03960 | .02040 | .02810 | -12.25300 |
| 1.199 | 1.156 | .00000 | .02040 | .01150 | .03960 | .02040 | .02810 | -12.26400 |
| 1.200 | 2.206 | .00000 | .01020 | .01150 | .03960 | .01020 | .02810 | -12.26400 |
| 1.199 | 3.252 | .00000 | .00000 | .01150 | .03960 | .00000 | .02810 | -12.27400 |
| 1.199 | 4.288 | .00850 | .00000 | .01150 | .03960 | -.00850 | .02810 | -12.28500 |
| 1.200 | 6.359 | .00000 | .01020 | .01150 | .03960 | -.01020 | .02810 | -12.29600 |
| 1.197 | GRADIENT | .00089 | -.00190 | .00000 | -.00000 | -.00279 | .00000 | -.00633 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

(D2F0C7) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDELAP = .000
 SPOBRK = 87.200 RUDDER = -10.000
 RN/L = 5.000

RUN NO. 503/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|--------|--------|---------|--------|---------|-----------|
| 1.402 | -6.127 | .00850 | .02040 | .01150 | .01980 | .01190 | .00830 | -12.30700 |
| 1.404 | -1.969 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | -12.36000 |
| 1.404 | -.917 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | -12.37100 |
| 1.405 | .162 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | -12.38200 |
| 1.403 | .647 | .00000 | .02040 | .01150 | .00990 | .02040 | .00160 | -12.23100 |
| 1.402 | 1.166 | .00000 | .02040 | .02300 | .00990 | .02040 | .01310 | -12.17800 |
| 1.401 | 2.224 | -.01010 | .02040 | .01150 | .00990 | .03050 | .00160 | -12.05900 |
| 1.401 | 3.276 | .00000 | .02040 | .01150 | .00990 | .02040 | .00160 | -11.98400 |
| 1.402 | 4.321 | .00000 | .02040 | .02300 | .01980 | .02040 | .00320 | -12.24200 |
| 1.401 | 6.412 | .00850 | .02040 | .01150 | .01980 | .01190 | .00830 | -12.28500 |
| | GRADIENT | -.00036 | .00000 | .00121 | -.00091 | .00036 | -.00213 | .04905 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

AMES 118-1-11 0A145A 01

(02F0C8) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
AILRON = .000 BDFLAP = -11.700
SPOBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 792/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|----------|----------|----------|----------|---------|---------|---------|
| .598 | -9.951 | -9.95120 | -9.95700 | -9.95630 | -9.94060 | -.00580 | .01570 | -.12540 |
| .598 | -7.948 | -7.95650 | -7.95080 | -7.94460 | -7.94060 | .00570 | .00400 | -.11710 |
| .599 | -5.953 | -5.96230 | -5.95370 | -5.94830 | -5.94600 | .00860 | .00230 | -.12540 |
| .598 | -3.940 | -3.95150 | -3.94970 | -3.94000 | -3.92030 | .00180 | .01970 | -.11710 |
| .598 | -2.937 | -2.95200 | -2.95000 | -2.92820 | -2.91830 | .00200 | .00990 | -.12540 |
| .598 | -1.950 | -1.95640 | -1.95110 | -1.95300 | -2.91830 | .00530 | .01220 | -.12540 |
| .598 | -.949 | -.95960 | -.94500 | -.94160 | -.94950 | .01450 | -.00790 | -.11710 |
| .598 | .015 | .00000 | .03060 | .00000 | .02970 | .03060 | .02970 | -.12540 |
| .598 | 1.012 | .99570 | 1.00960 | 1.02350 | 1.02020 | .01390 | -.00330 | -.12540 |
| .598 | 2.007 | 1.99500 | 2.00370 | 1.99530 | 2.03000 | .00870 | .03170 | -.12540 |
| .598 | 3.011 | 2.99500 | 3.01470 | 3.02310 | 3.01000 | .01970 | -.01310 | -.11710 |
| .598 | 4.008 | 4.00260 | 4.00180 | 4.01110 | 4.01840 | -.00080 | .00730 | -.11710 |
| .598 | 6.004 | 6.00680 | 5.96960 | 6.00850 | 6.03060 | -.03720 | .02210 | -.11710 |
| .597 | 8.023 | 8.01970 | 7.99630 | 8.03100 | 8.04550 | -.02340 | .01450 | -.11710 |
| .597 | 10.015 | 10.01000 | 9.98880 | 10.02000 | 10.04200 | -.02100 | .02230 | -.11710 |
| | GRADIENT | 1.00002 | 1.00083 | 1.00020 | .99893 | .00081 | -.00127 | .00028 |

RUN NO. 808/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|----------|----------|----------|----------|---------|---------|---------|
| .901 | -9.953 | -9.96100 | -9.92380 | -9.96560 | -9.96040 | .03720 | .00520 | -.13360 |
| .900 | -7.946 | -7.93920 | -7.96100 | -7.93400 | -7.95050 | -.02180 | -.01650 | -.13360 |
| .900 | -5.942 | -5.94370 | -5.95370 | -5.93700 | -5.93520 | -.01000 | .00180 | -.12540 |
| .899 | -3.939 | -3.94190 | -3.92890 | -3.93000 | -3.95450 | .01300 | -.02450 | -.13360 |
| .901 | -2.943 | -2.95200 | -2.93000 | -2.95880 | -2.92970 | .02200 | .02910 | -.13360 |
| .899 | -1.940 | -1.93560 | -1.93030 | -1.95300 | -1.94080 | .00530 | .01220 | -.13360 |
| .901 | -.946 | -.95960 | -.92230 | -.94160 | -.95960 | .03730 | -.01800 | -.13360 |
| .901 | .019 | .01700 | .03060 | .00000 | .02970 | .01360 | .02970 | -.13360 |
| .901 | 1.012 | .99570 | 1.01980 | 1.01200 | 1.02020 | .02410 | .00820 | -.13360 |
| .900 | 2.009 | 2.00570 | 2.00370 | 1.98820 | 2.04000 | -.00200 | .05180 | -.14180 |
| .900 | 3.023 | 3.00530 | 3.02570 | 3.03280 | 3.03000 | .02040 | -.00280 | -.13360 |
| .900 | 4.018 | 4.01280 | 4.00180 | 4.02100 | 4.03680 | -.01100 | .01580 | -.13360 |
| .900 | 6.018 | 6.00680 | 6.01660 | 6.00850 | 6.04080 | .00980 | .03230 | -.13360 |
| .899 | 7.971 | 7.83340 | 8.00530 | 8.02120 | 8.02380 | .01790 | .00260 | -.13360 |
| .897 | 10.005 | 9.99650 | 9.98880 | 10.00200 | 10.03300 | -.00770 | .03040 | -.13360 |
| .899 | GRADIENT | .99911 | .99695 | 1.00056 | 1.00341 | -.00216 | .00285 | -.00027 |

DATE 10 MAR 80

OAI145 TABULATED FORCE DATA

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AMES 118-1-11 OAI145A 01

(D2F0C9) (08 JUL 77)

REFERENCE DATA

SREF = 2650.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

ALPHA = 5.000 BETA = .000
 AILRON = .000 BDFLAP = 16.300
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 795/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|----------|----------|----------|----------|---------|---------|---------|
| .598 | -9.943 | -9.93160 | -9.93490 | -9.96560 | -9.94060 | -.00330 | .02500 | -.13360 |
| .598 | -7.948 | -7.95650 | -7.95080 | -7.94460 | -7.94060 | .00570 | .00400 | -.14180 |
| .598 | -5.945 | -5.94370 | -5.95370 | -5.93700 | -5.94600 | -.01000 | -.00900 | -.13360 |
| .599 | -3.938 | -3.95150 | -3.94970 | -3.93000 | -3.92030 | .00180 | .00970 | -.14180 |
| .598 | -2.945 | -2.96160 | -2.94000 | -2.93840 | -2.94110 | .02160 | -.00270 | -.14180 |
| .598 | -1.953 | -1.94600 | -1.95110 | -1.96240 | -1.95060 | -.00510 | .01180 | -.13360 |
| .598 | -.944 | -.95960 | -.93370 | -.94160 | -.93940 | .02590 | .00220 | -.14180 |
| .599 | .035 | .01700 | .04080 | .03450 | .04950 | .02380 | .01500 | -.14180 |
| .601 | 1.010 | .98660 | 1.01980 | 1.02350 | 1.01010 | .03320 | -.01340 | -.13360 |
| .599 | 2.012 | 2.00570 | 1.99300 | 2.01850 | 2.03000 | -.01270 | .01150 | -.14180 |
| .598 | 3.016 | 3.00530 | 3.01470 | 3.02310 | 3.02000 | .00940 | -.00310 | -.13360 |
| .598 | 4.013 | 4.01280 | 4.00180 | 4.01110 | 4.02760 | -.01100 | .01650 | -.13360 |
| .598 | 6.016 | 6.00680 | 6.00720 | 6.03080 | 6.02040 | .00040 | -.01040 | -.14180 |
| .598 | 8.002 | 7.99540 | 7.98730 | 8.00160 | 8.02380 | -.00810 | .02220 | -.13360 |
| .598 | 10.014 | 10.02300 | 9.99650 | 9.99350 | 10.04200 | -.02660 | .04840 | -.11710 |
| .598 | GRADIENT | 1.00063 | .99902 | 1.00009 | 1.00026 | -.00161 | .00017 | .00082 |

RUN NO. 811/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|----------|----------|----------|----------|---------|---------|---------|
| .902 | -9.949 | -9.94140 | -9.95700 | -9.96560 | -9.93070 | -.01560 | .03490 | -.16090 |
| .900 | -7.938 | -7.93920 | -7.93040 | -7.93400 | -7.95050 | .00880 | -.01650 | -.03500 |
| .900 | -5.937 | -5.94370 | -5.94380 | -5.92570 | -5.93520 | -.00010 | -.00950 | -.07610 |
| .900 | -3.937 | -3.96100 | -3.91850 | -3.95000 | -3.92030 | .04250 | .02970 | -.13360 |
| .899 | -2.943 | -2.95200 | -2.94000 | -2.94860 | -2.92970 | .01200 | .01890 | -.13360 |
| .901 | -1.937 | -1.93560 | -1.93030 | -1.95300 | -1.93100 | .00530 | .02200 | -.12540 |
| .900 | -.936 | -.93940 | -.93370 | -.94160 | -.92930 | .00570 | .01230 | -.12540 |
| .899 | .016 | .02550 | .01020 | .00000 | .02970 | -.01530 | .02970 | -.13360 |
| .900 | 1.015 | .99570 | 1.01980 | 1.03500 | 1.01010 | .02410 | -.02490 | -.13360 |
| .900 | 2.023 | 2.01640 | 2.02510 | 2.00840 | 2.04000 | .00870 | .03160 | -.13360 |
| .899 | 3.026 | 3.01560 | 3.02570 | 3.02310 | 3.04000 | .01010 | .01690 | -.12540 |
| .900 | 4.013 | 4.01280 | 4.01170 | 4.01110 | 4.01840 | -.00110 | .00730 | -.12540 |
| .896 | 6.009 | 6.00680 | 5.98840 | 6.02000 | 6.02040 | .01840 | .00040 | -.13360 |
| .899 | 8.009 | 8.00350 | 7.99630 | 8.01140 | 8.02380 | -.00720 | .01240 | -.12540 |
| .899 | 10.007 | 10.02300 | 9.98120 | 10.00200 | 10.02300 | -.04190 | .02110 | -.12540 |
| .899 | GRADIENT | 1.00094 | .99835 | 1.00131 | .99940 | -.00260 | -.00190 | .00056 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

AMES 118-1-11 0A145A 01

(02F000) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = .000 BETA = .000
AILRON = .000 BDFLAP = -11.700
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 793/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|----------|----------|----------|----------|---------|---------|---------|
| .599 | -9.943 | -9.93160 | -9.93490 | -9.95630 | -9.95050 | -.00330 | .00580 | -.11710 |
| .599 | -7.950 | -7.96510 | -7.94060 | -7.93400 | -7.96040 | .02450 | -.02640 | -.13360 |
| .599 | -5.940 | -5.93440 | -5.95370 | -5.93700 | -5.93520 | -.01930 | .00180 | -.11710 |
| .599 | -3.931 | -3.93240 | -3.92890 | -3.93000 | -3.93170 | .00350 | -.00170 | -.11710 |
| .599 | -2.947 | -2.96160 | -2.96000 | -2.94860 | -2.91830 | .00160 | .03030 | -.12540 |
| .599 | -1.943 | -1.94600 | -1.94070 | -1.95300 | -1.93100 | .00530 | .02200 | -.11710 |
| .599 | -.938 | -.94950 | -.92230 | -.94160 | -.93940 | .02720 | .00220 | -.11710 |
| .599 | .017 | .00850 | .02040 | .00000 | .03960 | .01190 | .03960 | -.11710 |
| .599 | 1.009 | 1.00490 | .99940 | 1.02350 | 1.01010 | -.00540 | -.01340 | -.10890 |
| .599 | 2.012 | 2.00570 | 2.00370 | 2.00840 | 2.03000 | -.00200 | .02160 | -.13360 |
| .598 | 3.021 | 3.01560 | 3.01470 | 3.01340 | 3.04000 | -.00090 | .02660 | -.13360 |
| .599 | 4.001 | 3.99240 | 3.99190 | 4.00120 | 4.01840 | -.00050 | .01720 | -.13360 |
| .599 | 6.009 | 6.00680 | 5.97900 | 6.02000 | 6.03060 | -.02780 | .01060 | -.13360 |
| .599 | 8.018 | 8.01970 | 7.98730 | 8.02120 | 8.04550 | -.03240 | .02430 | -.13360 |
| .599 | 10.015 | 10.01000 | 9.96500 | 10.01100 | 10.04200 | -.01330 | .03100 | -.13360 |
| .599 | GRADIENT | 1.00001 | .99882 | 1.00017 | 1.00098 | -.00118 | .00081 | -.00194 |

RUN NO. 809/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|----------|----------|----------|----------|---------|---------|---------|
| .902 | -9.941 | -9.94140 | -9.92380 | -9.95630 | -9.94060 | .01760 | .01570 | -.21560 |
| .902 | -7.951 | -7.95650 | -7.94060 | -7.94460 | -7.96040 | .01590 | -.01580 | -.14180 |
| .902 | -5.945 | -5.95300 | -5.95370 | -5.94830 | -5.92440 | -.00070 | .02390 | -.10070 |
| .901 | -3.935 | -3.95150 | -3.92890 | -3.94000 | -3.92030 | .02250 | .01970 | -.10070 |
| .901 | -2.940 | -2.94240 | -2.94000 | -2.94860 | -2.92970 | .00240 | .01890 | -.10070 |
| .901 | -1.948 | -1.94600 | -1.94070 | -1.95300 | -1.95060 | .00530 | .00240 | -.10070 |
| .901 | -.938 | -.94950 | -.92230 | -.93090 | -.94950 | .02720 | -.01860 | -.09250 |
| .901 | .019 | .02550 | .03060 | .00000 | .01980 | .00510 | .01980 | -.09250 |
| .902 | 1.014 | 1.01400 | 1.00960 | 1.02350 | 1.01010 | -.00440 | -.01340 | -.10890 |
| .901 | 2.007 | 1.99500 | 2.00370 | 1.99830 | 2.03000 | .00870 | .03170 | -.12540 |
| .901 | 3.016 | 3.00530 | 3.02570 | 3.00370 | 3.03000 | .02040 | .02630 | -.11710 |
| .901 | 4.016 | 4.02300 | 4.01170 | 4.00120 | 4.02760 | -.01130 | .02640 | -.11710 |
| .900 | 6.004 | 5.98720 | 5.98840 | 6.00850 | 6.03060 | .00120 | .02210 | -.11710 |
| .901 | 8.016 | 8.01160 | 8.00530 | 8.01140 | 8.03470 | -.00630 | .02330 | -.11710 |
| .901 | 10.005 | 9.99650 | 9.98880 | 10.01100 | 10.02300 | -.00770 | .01240 | -.11710 |
| .900 | GRADIENT | 1.00087 | .99909 | .99906 | 1.00095 | -.00177 | .00189 | -.00303 |

DATE 10 MAR 80

OAI145 TABULATED FORCE DATA

PAGE 1557

AMES 118-1-11 OAI145A 01

(D2F001) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = .000 BETA = .000
 AILRON = .000 DELAP = 16.300
 SPDGRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 796/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|----------|----------|----------|----------|---------|---------|---------|
| .599 | -9.949 | -9.95120 | -9.94590 | -9.95630 | -9.94060 | .00530 | .01570 | -.13360 |
| .599 | -7.963 | -7.97370 | -7.96100 | -7.95510 | -7.96040 | -.01270 | -.00520 | -.14180 |
| .599 | -5.945 | -5.94370 | -5.95370 | -5.93700 | -5.94600 | -.01000 | -.00900 | -.14180 |
| .600 | -3.941 | -3.95150 | -3.92890 | -3.94000 | -3.94310 | .02250 | -.00310 | -.14180 |
| .599 | -2.945 | -2.95200 | -2.95000 | -2.94860 | -2.92970 | .00200 | .01890 | -.14180 |
| .599 | -1.945 | -1.95640 | -1.93030 | -1.96240 | -1.93100 | .02610 | .03140 | -.13360 |
| .599 | -.949 | -.95960 | -.94500 | -.93090 | -.95960 | .01450 | -.02870 | -.14180 |
| .598 | .014 | .01700 | .01020 | .00000 | .02970 | -.00680 | .02970 | -.14180 |
| .599 | 1.009 | 1.00490 | .99940 | 1.00050 | 1.03030 | -.00540 | .02980 | -.13360 |
| .598 | 2.012 | 1.99500 | 2.00370 | 2.01850 | 2.03000 | .00870 | .01150 | -.14180 |
| .598 | 3.013 | 3.00530 | 2.99270 | 3.02310 | 3.03000 | -.01260 | .00690 | -.14180 |
| .598 | 4.009 | 4.01280 | 3.98200 | 4.02100 | 4.01840 | -.03080 | -.00260 | -.14180 |
| .599 | 6.016 | 6.01660 | 6.00720 | 6.00850 | 6.03060 | -.00940 | .02210 | -.14180 |
| .598 | 8.013 | 8.01160 | 7.99630 | 8.02120 | 8.02380 | -.01530 | .00260 | -.13360 |
| .598 | 10.013 | 10.03600 | 9.98120 | 10.00200 | 10.03300 | -.05520 | .03040 | -.14180 |
| | GRADIENT | 1.00090 | .99565 | 1.00185 | 1.00157 | -.00523 | -.00027 | -.00014 |

RUN NO. 812/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|----------|----------|----------|----------|---------|---------|---------|
| .896 | -9.958 | -9.97080 | -9.93490 | -9.96560 | -9.96040 | .03590 | .00520 | -.11710 |
| .902 | -7.953 | -7.95650 | -7.95080 | -7.94460 | -7.96040 | .00570 | -.01580 | -.12540 |
| .902 | -5.937 | -5.94370 | -5.94380 | -5.92570 | -5.93520 | -.00010 | -.00950 | -.11710 |
| .901 | -3.935 | -3.95150 | -3.92890 | -3.93000 | -3.93170 | .02250 | -.00170 | -.12540 |
| .900 | -2.930 | -2.94240 | -2.94000 | -2.91800 | -2.91830 | .00240 | -.00030 | -.11710 |
| .901 | -1.943 | -1.94600 | -1.94070 | -1.95300 | -1.93100 | .00530 | .02200 | -.10890 |
| .901 | -.936 | -.93940 | -.92230 | -.95230 | -.92930 | .01710 | .02300 | -.10890 |
| .900 | .017 | .01700 | .02040 | .00000 | .02970 | .00340 | .02970 | -.10890 |
| .900 | 1.009 | .99570 | 1.00960 | 1.00050 | 1.03030 | .01390 | .02980 | -.10890 |
| .899 | 2.017 | 2.02710 | 2.00370 | 1.99830 | 2.04000 | -.02340 | .04170 | -.10890 |
| .900 | 3.018 | 2.99500 | 3.02570 | 3.02310 | 3.03000 | .03070 | .00690 | -.10890 |
| .900 | 4.009 | 4.02300 | 4.00180 | 3.99130 | 4.01840 | -.02120 | .02710 | -.10070 |
| .899 | 6.014 | 6.00680 | 5.98840 | 6.03080 | 6.03060 | -.01840 | -.00020 | -.10890 |
| .899 | 8.013 | 8.01970 | 8.00530 | 8.00160 | 8.02380 | -.01440 | .02220 | -.10890 |
| .900 | 10.023 | 10.02300 | 9.99650 | 10.02000 | 10.05100 | -.02660 | .03160 | -.10890 |
| | GRADIENT | 1.00178 | .99925 | .99796 | 1.00103 | -.00253 | .00307 | .00208 |

AMES 118-1-11 OAI45A 01

(DEF002) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 10.000 BETA = .000
 AILRON = .000 BOFLAP = -11.700
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 794/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|----------|----------|----------|----------|---------|---------|---------|
| .598 | -9.948 | -9.96100 | -9.92380 | -9.95630 | -9.95050 | .03720 | .00580 | -1.3360 |
| .598 | -7.956 | -7.96510 | -7.94060 | -7.96570 | -7.95050 | .02450 | .01520 | -1.3360 |
| .598 | -5.940 | -5.93440 | -5.94380 | -5.93700 | -5.94600 | -.00940 | -.00900 | -1.3360 |
| .598 | -3.936 | -3.94190 | -3.93930 | -3.93000 | -3.93170 | .00260 | -.00170 | -1.4180 |
| .598 | -2.910 | -2.95200 | -2.95000 | -2.93840 | -2.79780 | .00200 | .14060 | -1.4180 |
| .598 | -1.942 | -1.93560 | -1.94070 | -1.95300 | -1.94080 | -.00510 | .01220 | -1.4180 |
| .598 | -.936 | -.94950 | -.93370 | -.93090 | -.92930 | .01580 | .00160 | -1.3360 |
| .598 | .018 | .00850 | .02040 | .01150 | .02970 | .01190 | .01820 | -1.3360 |
| .598 | 1.014 | 1.00490 | 1.03000 | 1.00050 | 1.02020 | .02510 | .01970 | -1.5000 |
| .599 | 2.015 | 1.99500 | 2.02510 | 2.00840 | 2.03000 | .03010 | .02160 | -1.3360 |
| .598 | 3.006 | 2.99500 | 3.01470 | 3.00370 | 3.01000 | .01970 | .00630 | -1.3360 |
| .598 | 4.011 | 4.02300 | 4.00180 | 4.00120 | 4.01840 | -.02120 | .01720 | -1.5000 |
| .598 | 6.011 | 5.99700 | 6.00720 | 6.00850 | 6.03060 | .01020 | .02210 | -1.3360 |
| .598 | 8.014 | 8.01160 | 7.98730 | 8.02120 | 8.03470 | -.02430 | .01350 | -1.3360 |
| .598 | 10.013 | 10.01000 | 9.97350 | 10.02800 | 10.04200 | -.03630 | .01360 | -1.3360 |
| .598 | GRADIENT | 1.00199 | 1.00261 | 1.00013 | .99528 | .00062 | -.00484 | -.00014 |

RUN NO. 810/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|----------|----------|----------|----------|---------|---------|---------|
| .902 | -9.941 | -9.95120 | -9.93490 | -9.94700 | -9.93070 | .01630 | .01630 | -.07610 |
| .899 | -7.952 | -7.93920 | -7.95080 | -7.96570 | -7.95050 | -.01160 | .01520 | -.07610 |
| .900 | -5.932 | -5.94370 | -5.94380 | -5.91440 | -5.92440 | -.00010 | -.01000 | -.09250 |
| .900 | -3.937 | -3.96100 | -3.92890 | -3.94000 | -3.92030 | .03210 | .01970 | -.09250 |
| .899 | -2.945 | -2.95000 | -2.95000 | -2.94860 | -2.92970 | .00200 | .01890 | -.07610 |
| .900 | -1.940 | -1.92520 | -1.93030 | -1.95300 | -1.95060 | -.00510 | .00240 | -.05140 |
| .900 | -.939 | -.93940 | -.94500 | -.94160 | -.92930 | -.00570 | .01230 | -.10070 |
| .899 | .012 | .00850 | .01020 | .00000 | .02970 | .00170 | .02970 | -.10070 |
| .900 | 1.007 | .99570 | 1.00960 | 1.01200 | 1.01010 | .01390 | .02190 | -.10890 |
| .900 | 2.015 | 2.00570 | 2.03580 | 1.98820 | 2.03000 | .03010 | .04180 | -.11710 |
| .899 | 3.016 | 3.00530 | 3.02570 | 3.00370 | 3.03000 | .02040 | .02630 | -.10890 |
| .900 | 4.006 | 4.00260 | 4.01170 | 3.99130 | 4.01840 | .00910 | .02710 | -.12540 |
| .898 | 6.012 | 6.00680 | 5.98840 | 6.02000 | 6.03060 | -.01840 | .01060 | -.10890 |
| .900 | 8.023 | 8.02780 | 8.00530 | 8.00160 | 8.05640 | -.03250 | .05480 | -.10890 |
| .898 | 10.014 | 10.02300 | 9.98880 | 10.01100 | 10.03300 | -.03420 | .02170 | -.11710 |
| .898 | GRADIENT | 1.00018 | 1.00106 | .99840 | 1.00036 | .00089 | .00195 | -.00620 |

DATE 10 MAR 80

OAI145 TABULATED FORCE DATA
AMES 118-1-11 OAI145A 01

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(D2F003) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 10.000 BETA = .000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BDFLAP = 16.300
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPOBRK = 25.000 RUDDER = .000
SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 797/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|----------|----------|---------|---------|---------|
| .600 | -9.951 | -9.95120 | -9.93490 | -9.96560 | -9.95050 | .01530 | .01510 | -.12540 |
| .600 | -7.943 | -7.95650 | -7.94060 | -7.91280 | -7.96040 | .01530 | -.04760 | -.13360 |
| .599 | -5.940 | -5.94370 | -5.94380 | -5.93700 | -5.93520 | -.00010 | .00180 | -.13360 |
| .599 | -3.946 | -3.95150 | -3.93930 | -3.96000 | -3.93170 | .01210 | .02830 | -.14180 |
| .599 | -2.943 | -2.94240 | -2.95000 | -2.94860 | -2.92970 | -.00760 | .01890 | -.13360 |
| .599 | -1.940 | -1.93560 | -1.94070 | -1.95300 | -1.93100 | -.00510 | .02200 | -.10890 |
| .600 | -.944 | -.94950 | -.94500 | -.94160 | -.93940 | .00440 | .00220 | -.13360 |
| .599 | .026 | .00000 | .04080 | .03450 | .02970 | .04080 | -.00480 | -.13360 |
| .600 | 1.015 | .98660 | 1.03000 | 1.03500 | 1.01010 | .04340 | -.02490 | -.12540 |
| .600 | 2.020 | 2.01540 | 2.01440 | 2.01950 | 2.03000 | -.00200 | .01150 | -.13360 |
| .599 | 3.016 | 3.01560 | 3.00370 | 3.01340 | 3.03000 | -.01190 | .01660 | -.13360 |
| .600 | 4.011 | 4.01280 | 4.00180 | 4.00120 | 4.02760 | -.01100 | .02640 | -.10070 |
| .600 | 6.014 | 6.00680 | 5.99780 | 6.02000 | 6.03050 | -.00900 | .01060 | -.13360 |
| .599 | 8.009 | 8.00350 | 7.99630 | 8.01140 | 8.02380 | -.00720 | .01240 | -.12540 |
| .599 | 10.012 | 10.01000 | 9.99650 | 10.01100 | 10.03300 | -.01330 | .02170 | -.13360 |
| GRADIENT | | .99866 | .99882 | 1.00117 | 1.00013 | -.00103 | -.00104 | .00207 |

RUN NO. 813/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|----------|----------|---------|---------|---------|
| .899 | -9.941 | -9.95120 | -9.92380 | -9.94700 | -9.94060 | .02740 | .00640 | -.13360 |
| .899 | -7.953 | -7.96510 | -7.94060 | -7.95510 | -7.95050 | .02450 | .00470 | -.15000 |
| .900 | -5.933 | -5.93440 | -5.92400 | -5.93700 | -5.93520 | .01040 | .00180 | -.14180 |
| .898 | -3.943 | -3.95150 | -3.94970 | -3.94000 | -3.93170 | .00180 | .00830 | -.15000 |
| .898 | -2.940 | -2.94240 | -2.94000 | -2.93840 | -2.94110 | .00240 | -.00270 | -.15000 |
| .900 | -1.942 | -1.94600 | -1.91990 | -1.97180 | -1.93100 | .02610 | .04080 | -.14180 |
| .900 | -.938 | -.94950 | -.92230 | -.95230 | -.92930 | .02720 | .02300 | -.11710 |
| .900 | .019 | .01700 | .03060 | .00000 | .02970 | .01350 | .02970 | -.10890 |
| .901 | 1.014 | 1.00490 | 1.01980 | 1.01200 | 1.02020 | .01490 | .00820 | -.11710 |
| .899 | 2.017 | 2.00570 | 2.02510 | 1.99830 | 2.04000 | .01940 | .04170 | -.12540 |
| .900 | 3.013 | 3.00530 | 3.00370 | 3.00370 | 3.04000 | -.00160 | .03630 | -.12540 |
| .900 | 4.011 | 4.01280 | 4.00180 | 4.00120 | 4.02760 | -.01100 | .02640 | -.11710 |
| .899 | 6.012 | 6.00680 | 5.98840 | 6.03080 | 6.02380 | -.01840 | -.00720 | -.15000 |
| .899 | 8.020 | 8.01970 | 8.00530 | 8.03100 | 8.02380 | -.01440 | -.00720 | -.14180 |
| .900 | 10.020 | 10.02300 | 9.99650 | 10.01100 | 10.05100 | -.02660 | .04030 | -.15000 |
| GRADIENT | | 1.00015 | .99866 | .99910 | 1.00207 | -.00149 | .00297 | .00400 |

AMES 118-1-11 0A145A 01

REFERENCE DATA

| | | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|-----|----|
| SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. | X0 |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. | Y0 |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. | Z0 |
| SCALE | = | .0500 | | | | | | |

| BIN NO | 78A/ 0 | RN/L = | 4.98 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|--------|--------|--------|------|---------------------|--------|------|
|--------|--------|--------|------|---------------------|--------|------|

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|--------|---------|---------|---------|---------|---------|--------|---------|
| .596 | -5.027 | 5.01580 | 4.98150 | 4.99650 | 5.02630 | -.03430 | .02980 | -.14180 |
| .597 | - | 5.01580 | 4.98150 | 4.99650 | 5.02630 | -.03430 | .02980 | -.15000 |
| .596 | 2.482 | 5.01580 | 4.98150 | 4.99650 | 5.01560 | -.03430 | .01910 | -.15000 |
| .597 | 5.001 | 5.01580 | 4.98150 | 4.99650 | 5.01560 | -.03430 | .01910 | -.15000 |
| .597 | 6.048 | 5.00610 | 4.98150 | 4.99650 | 5.01560 | -.02460 | .01910 | -.14180 |
| .597 | 7.097 | 5.00610 | 4.98150 | 4.99650 | 5.01560 | -.02460 | .01910 | -.15000 |
| .597 | 8.151 | 5.00610 | 4.98150 | 4.99650 | 5.01560 | -.02460 | .01910 | -.14180 |
| .597 | 9.122 | 5.00610 | 4.96990 | 4.99650 | 5.01560 | -.03620 | .01910 | -.14180 |
| .597 | 10.125 | 5.00610 | 4.98150 | 4.99650 | 5.01560 | -.02460 | .01910 | -.15000 |
| .596 | 11.157 | 5.01580 | 4.98150 | 4.99650 | 5.01560 | -.03430 | .01910 | -.14180 |
| .597 | 12.149 | 5.00610 | 4.96990 | 4.99650 | 5.01560 | -.03620 | .01910 | -.14180 |
| .597 | 13.156 | 5.00610 | 4.98150 | 4.99650 | 5.01560 | -.02460 | .01910 | -.14180 |
| .597 | 15.186 | 5.00610 | 4.99650 | 4.99650 | 5.01560 | -.03620 | .01910 | -.14180 |
| .595 | CRASH | 5.00610 | 4.99650 | 4.99650 | 5.01560 | -.00000 | .00421 | -.00000 |
| | | | 0.0000 | 0.0000 | - | -.00421 | - | -.00000 |

| | | |
|--------|------|---------------------------------|
| 807/ 0 | 4.98 | GRADIENT INTERVAL = -5.00/ 5.00 |
|--------|------|---------------------------------|

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|---------|---------|---------|
| .902 | -5.053 | 5.01580 | 4.98150 | 5.01950 | 5.01560 | -.03430 | -.00390 | -.15000 |
| .902 | -.034 | 5.01580 | 4.98150 | 5.01950 | 5.01560 | -.03430 | -.00390 | -.18280 |
| .904 | 2.486 | 5.01580 | 4.98150 | 5.01950 | 5.01560 | -.03430 | -.00390 | -.08430 |
| .902 | 5.054 | 5.01580 | 4.98150 | 5.01950 | 5.01560 | -.03430 | -.00390 | -.08430 |
| .900 | 6.087 | 5.00610 | 4.98150 | 5.01950 | 5.01560 | -.02460 | -.00390 | -.07610 |
| .902 | 7.092 | 5.00610 | 4.98150 | 5.01950 | 5.01560 | -.02460 | -.00390 | -.07610 |
| .900 | 8.129 | 5.00610 | 4.98150 | 5.01950 | 5.01560 | -.02460 | -.00390 | -.15000 |
| .900 | 9.149 | 5.00610 | 4.98150 | 5.01950 | 5.01560 | -.02460 | -.00390 | -.16090 |
| .899 | 10.167 | 5.00610 | 4.98150 | 5.01950 | 5.01560 | -.02460 | -.00390 | -.13360 |
| .901 | 11.186 | 5.00610 | 4.98150 | 5.01950 | 5.00490 | -.02460 | -.01460 | -.15000 |
| .902 | 12.197 | 5.00610 | 4.98150 | 5.00800 | 5.00490 | -.02460 | -.00310 | -.12540 |
| .900 | 13.205 | 5.00610 | 4.98150 | 5.01950 | 5.01560 | -.02460 | -.00390 | -.11710 |
| .900 | 15.221 | 4.99640 | 4.98150 | 5.00800 | 5.01560 | -.01490 | -.00760 | -.17190 |
| .903 | GRADIENT | .00000 | .00000 | .00800 | .00000 | .00000 | -.00000 | -.03907 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1561

(D2F0D5) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = 5.000
 ATLIRON = .000 BOFLAP = 16.300
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 798/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|---------|---------|---------|
| .600 | -5.035 | 5.01580 | 4.99310 | 5.00800 | 5.03700 | -.02270 | .02900 | -.12540 |
| .600 | -.041 | 5.00610 | 4.99310 | 5.00800 | 5.03700 | -.01300 | .02900 | -.12540 |
| .598 | 2.488 | 5.00610 | 4.98150 | 5.00800 | 5.03700 | -.02460 | .02900 | -.12540 |
| .597 | 4.997 | 5.00610 | 4.98150 | 5.00800 | 5.03700 | -.02460 | .02900 | -.11710 |
| .599 | 6.052 | 5.00610 | 4.99310 | 5.00800 | 5.03700 | -.01300 | .02900 | -.12540 |
| .598 | 7.084 | 5.00610 | 4.98150 | 5.00800 | 5.03700 | -.02460 | .02900 | -.12540 |
| .599 | 8.113 | 5.00610 | 4.99310 | 5.00800 | 5.03700 | -.01300 | .02900 | -.12540 |
| .598 | 9.124 | 5.00610 | 4.99310 | 4.98500 | 5.03700 | -.01300 | .05200 | -.07610 |
| .599 | 10.122 | 5.00610 | 4.99310 | 5.00800 | 5.03700 | -.01300 | .02900 | -.12540 |
| .599 | 11.157 | 5.00610 | 4.99310 | 5.00800 | 5.03700 | -.01300 | .02900 | -.12540 |
| .599 | 12.174 | 5.00610 | 4.99310 | 5.00800 | 5.03700 | -.01300 | .02900 | -.12540 |
| .599 | 13.177 | 5.00610 | 4.99310 | 5.00800 | 5.03700 | -.01300 | .02900 | -.12540 |
| .599 | 15.178 | 5.00610 | 4.99310 | 5.00800 | 5.03700 | -.01300 | .02900 | -.12540 |
| .598 | GRADIENT | -.00000 | -.00231 | -.00000 | -.00000 | -.00231 | -.00000 | .00165 |

RUN NO. 816/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|---------|--------|---------|
| .899 | -5.065 | 5.01580 | 4.98150 | 5.00800 | 5.04770 | -.03430 | .03970 | -.16090 |
| .899 | -.034 | 5.00610 | 4.98150 | 5.00800 | 5.04770 | -.02460 | .03970 | -.06790 |
| .899 | 2.521 | 4.98670 | 4.98150 | 5.00800 | 5.04770 | -.00520 | .03970 | -.05140 |
| .900 | 5.065 | 4.97700 | 4.98150 | 5.00800 | 5.04770 | .00450 | .03970 | -.13360 |
| .898 | 6.084 | 4.97700 | 4.98150 | 5.01950 | 5.03700 | .00450 | .01750 | -.06790 |
| .903 | 7.108 | 4.97700 | 4.98150 | 5.00800 | 5.04770 | .00450 | .03970 | -.01430 |
| .898 | 8.141 | 4.97700 | 4.98150 | 5.00800 | 5.04770 | .00450 | .03970 | -.07610 |
| .901 | 9.165 | 4.98670 | 4.98150 | 5.00800 | 5.03700 | -.00520 | .02900 | -.09250 |
| .898 | 10.163 | 4.97700 | 4.98150 | 5.00800 | 5.03700 | .00450 | .02900 | -.07610 |
| .896 | 11.187 | 4.97700 | 4.98150 | 5.00800 | 5.03700 | .00450 | .02900 | -.05140 |
| .895 | 12.199 | 4.97700 | 4.96990 | 5.00800 | 5.04770 | -.00710 | .03970 | -.06790 |
| .900 | 13.208 | 4.97700 | 4.96990 | 5.00800 | 5.04770 | -.00710 | .03970 | -.14180 |
| .899 | 15.224 | 4.96730 | 4.96990 | 5.00800 | 5.04770 | .00260 | .03970 | -.22650 |
| .899 | GRADIENT | -.00759 | .00000 | .00000 | .00000 | .00759 | .00000 | .00646 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1562

AMES 118-1-11 OAI45A 01

(02F006) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETA = .000 ELEVON = -5.000
 AILRON = .000 BDFLAP = -11.700
 SPD BRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 787/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|----------|----------|----------|----------|---------|---------|---------|
| .597 | -5.085 | -4.96230 | -4.91930 | -4.93130 | -4.94160 | .04300 | -.01030 | -.15000 |
| .599 | -.094 | -4.96230 | -4.91930 | -4.93130 | -4.95240 | .04300 | -.02110 | -.15000 |
| .598 | 2.463 | -4.96230 | -4.91930 | -4.93130 | -4.95240 | .04300 | -.02110 | -.15000 |
| .597 | 4.975 | -4.96230 | -4.93040 | -4.93130 | -4.95240 | .03190 | -.02110 | -.15000 |
| .597 | 6.010 | -4.96230 | -4.93040 | -4.92000 | -4.94160 | .03190 | -.02160 | -.17190 |
| .597 | 7.040 | -4.96230 | -4.91930 | -4.93130 | -4.95240 | .04300 | -.02110 | -.15000 |
| .596 | 8.014 | -4.96230 | -4.93040 | -4.93130 | -4.95240 | .05260 | -.02110 | -.15000 |
| .596 | 9.038 | -4.97190 | -4.91930 | -4.93130 | -4.95240 | .04150 | -.02110 | -.15000 |
| .597 | 10.086 | -4.97190 | -4.93040 | -4.93130 | -4.95240 | .05260 | -.02110 | -.15000 |
| .598 | 11.092 | -4.97190 | -4.91930 | -4.93130 | -4.95240 | .05110 | -.00980 | -.15000 |
| .599 | 12.137 | -4.98150 | -4.93040 | -4.94260 | -4.95240 | .06220 | -.02110 | -.15000 |
| .598 | 13.130 | -4.98150 | -4.91930 | -4.93130 | -4.95240 | .05260 | -.02110 | -.15000 |
| .598 | 15.157 | -4.97190 | -4.91930 | -4.93130 | -4.95240 | .00000 | -.00000 | .00000 |
| .598 | GRADIENT | .00000 | -.00218 | .00000 | .00000 | -.00218 | .00000 | .00000 |

RUN NO. 806/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|----------|----------|----------|----------|---------|---------|---------|
| .902 | -5.081 | -4.95270 | -4.93040 | -4.95390 | -4.92000 | .02230 | .03390 | -.15000 |
| .900 | -.087 | -4.95270 | -4.93040 | -4.95270 | -4.92000 | .02230 | .04520 | -.15000 |
| .904 | 2.432 | -4.96230 | -4.93040 | -4.94260 | -4.92000 | .03190 | .02260 | -.14180 |
| .900 | 4.985 | -4.95270 | -4.93040 | -4.95390 | -4.92000 | .02230 | .03390 | -.13360 |
| .901 | 6.021 | -4.96230 | -4.93040 | -4.95390 | -4.92000 | .03190 | .03390 | -.10890 |
| .901 | 7.042 | -4.96230 | -4.93040 | -4.94260 | -4.92000 | .03190 | .02260 | -.10070 |
| .899 | 8.089 | -4.95270 | -4.93040 | -4.95390 | -4.92000 | .02230 | .03390 | -.09250 |
| .900 | 9.108 | -4.95270 | -4.93040 | -4.95390 | -4.92000 | .02230 | .02260 | -.10890 |
| .900 | 10.131 | -4.95270 | -4.93040 | -4.94260 | -4.92000 | .02230 | .03390 | -.10890 |
| .901 | 11.149 | -4.97190 | -4.93040 | -4.95390 | -4.92000 | .04150 | .03390 | -.10890 |
| .899 | 12.185 | -4.96230 | -4.93040 | -4.95390 | -4.92000 | .03190 | .03390 | -.10890 |
| .900 | 13.178 | -4.96230 | -4.94150 | -4.96520 | -4.93080 | .02080 | .03440 | -.14180 |
| .900 | 15.213 | -4.96230 | -4.93040 | -4.96520 | -4.92000 | .03190 | .04520 | -.13360 |
| .903 | GRADIENT | .00001 | .00000 | .00221 | .00000 | -.00001 | -.00221 | .00323 |

(02F007) (08 JUL 77)

REFERENCE DATA

| | | | | | | | | | | | | | | | |
|---|-------|---|-----------|--------|------|---|-----------|-----|----|--------|---|--------|--------|---|--------|
| = | SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. | XO | BETA | = | .000 | ELEVON | = | -5.000 |
| = | LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. | YO | AIRON | = | .000 | BDFLAP | = | 16.300 |
| = | BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. | ZO | SPDBRK | = | 25.000 | RUDDER | = | .000 |
| = | SCALE | = | .0500 | | | | | | | RN/L | = | 5.000 | | | |

PARAMETRIC DATA

| MACH | RUN NO. | 799/ 0 | RN/L = | 4.99 | GRADIENT INTERVAL = | -5.00/ | 5.00 | | |
|------|---------|----------|----------|----------|---------------------|----------|--------|---------|---------|
| | | ALPHA | ELV-L0 | ELV-L1 | ELV-R0 | ELV-R1 | DELL | DELIR | DRHL |
| .600 | | -5.058 | -4.94310 | -4.91930 | -4.91110 | -4.93080 | .02380 | -.01970 | -.07610 |
| .602 | | -.056 | -4.94310 | -4.91930 | -4.90220 | -4.93080 | .02380 | -.02860 | -.08430 |
| .598 | | 2.453 | -4.94310 | -4.90820 | -4.92000 | -4.93080 | .03490 | -.01080 | -.13360 |
| .598 | | 4.959 | -4.94310 | -4.91930 | -4.92000 | -4.93080 | .02380 | -.01080 | -.13360 |
| .599 | | 5.990 | -4.94310 | -4.91930 | -4.93130 | -4.93080 | .02380 | .00050 | -.13360 |
| .599 | | 7.022 | -4.94310 | -4.91930 | -4.93130 | -4.93080 | .02380 | .00050 | -.12540 |
| .600 | | 8.032 | -4.94310 | -4.91930 | -4.93130 | -4.93080 | .02380 | .00050 | -.13360 |
| .600 | | 9.073 | -4.94310 | -4.91930 | -4.94260 | -4.93080 | .02380 | .01180 | -.12540 |
| .599 | | 10.110 | -4.94310 | -4.91930 | -4.94260 | -4.93080 | .02380 | .01180 | -.12540 |
| .599 | | 11.124 | -4.95270 | -4.91930 | -4.91110 | -4.93080 | .03340 | -.01970 | -.07610 |
| .599 | | 12.139 | -4.95270 | -4.91930 | -4.93130 | -4.93080 | .03340 | .00050 | -.13360 |
| .598 | | 13.145 | -4.95270 | -4.91930 | -4.93130 | -4.93080 | .03340 | .00050 | -.13360 |
| .598 | | 15.159 | -4.95270 | -4.91930 | -4.92000 | -4.93080 | .03340 | -.01080 | -.13360 |
| | | GRADIENT | .00000 | .00000 | -.00355 | .00000 | .00000 | .00355 | -.00983 |

| MACH | RUN NO. | 817/ 0 | RN/L = | 4.99 | GRADIENT INTERVAL = | -5.00/ | 5.00 | DELR | DRHL |
|------|----------|----------|----------|----------|---------------------|--------|---------|------|---------|
| .899 | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | | | |
| .900 | -5.110 | -4.96230 | -4.91930 | -4.94260 | -4.92000 | 04300 | .02260 | | -.11710 |
| .899 | -.086 | -4.96230 | -4.91930 | -4.94260 | -5.08200 | 04300 | -.13940 | | -.07610 |
| .899 | 2.453 | -4.96230 | -4.91930 | -4.94260 | -5.08200 | 04300 | -.12810 | | -.08430 |
| .897 | 5.014 | -4.97190 | -4.91930 | -4.94260 | -5.08200 | 05260 | -.13940 | | -.05960 |
| .897 | 6.059 | -4.97190 | -4.91930 | -4.93130 | -5.08200 | 05260 | -.15070 | | -.03500 |
| .898 | 7.086 | -4.96230 | -4.91930 | -4.93130 | -5.08200 | 04300 | -.15070 | | -.16090 |
| .897 | 8.115 | -4.97190 | -4.91930 | -4.94260 | -5.08200 | 05260 | -.13940 | | -.19370 |
| .898 | 9.134 | -4.96230 | -4.91930 | -4.93130 | -5.08200 | 04300 | -.15070 | | -.16090 |
| .898 | 10.144 | -4.96230 | -4.91930 | -4.93130 | -5.08200 | 04300 | -.15070 | | -.14180 |
| .901 | 11.178 | -4.96230 | -4.91930 | -4.93130 | -5.08200 | 04300 | -.15070 | | -.18280 |
| .897 | 12.180 | -4.96230 | -4.91930 | -4.93130 | -5.08200 | 04300 | -.15070 | | -.12540 |
| .896 | 13.188 | -4.96230 | -4.91930 | -4.93130 | -5.08200 | 04300 | -.15070 | | -.11710 |
| .900 | 15.212 | -4.97190 | -4.91930 | -4.94260 | -5.08200 | 05260 | -.13940 | | -.02680 |
| | GRADIENT | .00000 | .00000 | -.00445 | -.00000 | .00000 | .00445 | | -.00323 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

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(02F008) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELEVON = 5.000 AILRON = .000
SPOBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 790/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BOFLAP | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|---------|---------|---------|
| .597 | -11.642 | 5.00610 | 4.96990 | 5.00800 | 5.02630 | -.03620 | .01830 | -.11710 |
| .598 | -7.950 | 5.00610 | 4.96990 | 5.00800 | 5.02630 | -.03620 | .01830 | -.11710 |
| .597 | -5.938 | 5.00610 | 4.96990 | 5.00800 | 5.02630 | -.03620 | .01830 | -.12540 |
| .598 | -3.961 | 5.00610 | 4.96990 | 5.00800 | 5.02630 | -.03620 | .01830 | -.13360 |
| .597 | -1.940 | 5.00610 | 4.96990 | 5.00800 | 5.02630 | -.03620 | .01830 | -.12540 |
| .597 | .010 | 5.00610 | 4.96990 | 5.00800 | 5.02630 | -.03620 | .01830 | -.12540 |
| .597 | 2.008 | 5.00610 | 4.96990 | 5.00800 | 5.02630 | -.03620 | .01830 | -.11710 |
| .597 | 4.007 | 4.99640 | 4.96990 | 5.00800 | 5.02630 | -.02650 | .01830 | -.11710 |
| .597 | 6.010 | 4.99640 | 4.96990 | 5.00800 | 5.02630 | -.03620 | .01830 | -.12540 |
| .597 | 8.030 | 5.00610 | 4.96990 | 5.00800 | 5.02630 | -.02650 | .01830 | -.12540 |
| .597 | 12.020 | 4.99640 | 4.96990 | 5.00800 | 5.02630 | -.02650 | .01830 | -.12540 |
| .597 | 16.308 | 4.99640 | 4.96990 | 5.00800 | 5.02630 | -.02650 | .01830 | -.13360 |
| .597 | 22.528 | 4.99640 | 4.96990 | 5.00800 | 5.02630 | -.02650 | .01830 | -.13360 |
| | GRADIENT | -.00098 | .00000 | .00000 | -.00000 | .00098 | -.00000 | .00208 |

RUN NO. 804/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BOFLAP | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|---------|--------|---------|
| .903 | -11.642 | 4.98670 | 4.98150 | 5.00800 | 5.01560 | -.00520 | .00760 | -.11710 |
| .902 | -7.940 | 4.99640 | 4.98150 | 5.00800 | 5.01560 | -.01490 | .00760 | -.11710 |
| .901 | -5.927 | 4.99640 | 4.98150 | 5.00800 | 5.01560 | -.01490 | .00760 | -.12540 |
| .902 | -3.950 | 4.99640 | 4.98150 | 5.00800 | 5.01560 | -.01490 | .00760 | -.13360 |
| .902 | -1.931 | 4.99640 | 4.99310 | 5.00800 | 5.01560 | -.00330 | .00760 | -.13360 |
| .902 | .029 | 4.99640 | 4.98150 | 5.00800 | 5.01560 | -.01490 | .00760 | -.14180 |
| .901 | 2.017 | 4.99640 | 4.98150 | 5.00800 | 5.01560 | -.01490 | .00760 | -.15000 |
| .902 | 4.007 | 4.99640 | 4.98150 | 5.00800 | 5.01560 | -.01490 | .00760 | -.15000 |
| .902 | 6.000 | 4.99640 | 4.98150 | 5.00800 | 5.01560 | -.01490 | .00760 | -.15000 |
| .901 | 8.030 | 4.99640 | 4.98150 | 5.00800 | 5.01560 | -.01490 | .00760 | -.15000 |
| .901 | 12.009 | 4.98670 | 4.98150 | 5.00800 | 5.01560 | -.00520 | .00760 | -.15000 |
| .901 | 16.308 | 4.98670 | 4.98150 | 5.00800 | 5.01560 | -.00520 | .00760 | -.15000 |
| .901 | 22.537 | 4.99640 | 4.98150 | 5.00800 | 5.01560 | -.01490 | .00760 | -.15000 |
| .899 | GRADIENT | .00000 | -.00058 | -.00000 | -.00000 | -.00058 | .00000 | -.00247 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = -5.000 AILRON = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDBRK = 25.000 RUDDER = .000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 791/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BOFLAP | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|----------|----------|----------|----------|---------|---------|---------|
| .599 | -11.642 | -4.96230 | -4.93040 | -4.93130 | -4.93080 | .03190 | .00050 | -.11710 |
| .598 | -7.940 | -4.96230 | -4.93040 | -4.93130 | -4.93080 | .03190 | .00050 | -.12540 |
| .598 | -5.938 | -4.96230 | -4.93040 | -4.94260 | -4.93080 | .03190 | .01180 | -.12540 |
| .598 | -3.903 | -4.96230 | -4.93040 | -4.92000 | -4.93080 | .03190 | -.01080 | -.12540 |
| .598 | -1.871 | -4.96230 | -4.93040 | -4.91110 | -4.93080 | .03190 | -.01970 | -.13360 |
| .598 | .029 | -4.96230 | -4.93040 | -4.92000 | -4.93080 | .03190 | -.01080 | -.12540 |
| .598 | 2.027 | -4.96230 | -4.93040 | -4.92000 | -4.93080 | .03190 | -.01080 | -.13360 |
| .598 | 3.996 | -4.96230 | -4.93040 | -4.94260 | -4.93080 | .03190 | .01180 | -.13360 |
| .598 | 6.000 | -4.96230 | -4.93040 | -4.94260 | -4.93080 | .03190 | .01180 | -.13360 |
| .598 | 8.020 | -4.96230 | -4.93040 | -4.93130 | -4.93080 | .03190 | .00050 | -.14180 |
| .598 | 11.999 | -4.96230 | -4.93040 | -4.93130 | -4.93080 | .03190 | .00050 | -.13360 |
| .598 | 16.328 | -4.96230 | -4.93040 | -4.94260 | -4.93080 | .03190 | .01180 | -.13360 |
| .598 | 22.547 | -4.96230 | -4.93040 | -4.93130 | -4.93080 | .03190 | .00050 | -.13360 |
| | GRADIENT | .00000 | -.00000 | -.00274 | .00000 | -.00000 | .00274 | -.00084 |

RUN NO. 805/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BOFLAP | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|----------|----------|----------|----------|--------|---------|---------|
| .902 | -11.631 | -4.94310 | -4.93040 | -4.95390 | -4.93080 | .01270 | .02310 | -.14180 |
| .902 | -7.940 | -4.94310 | -4.93040 | -4.95390 | -4.93080 | .01270 | .02310 | -.14180 |
| .902 | -5.948 | -4.94310 | -4.93040 | -4.95390 | -4.93080 | .01270 | .02310 | -.14180 |
| .901 | -3.940 | -4.94310 | -4.93040 | -4.95390 | -4.93080 | .01270 | .02310 | -.14180 |
| .902 | -1.940 | -4.94310 | -4.93040 | -4.94260 | -4.93080 | .01270 | .01180 | -.15000 |
| .902 | .010 | -4.95270 | -4.93040 | -4.94260 | -4.93080 | .02230 | .01180 | -.15000 |
| .901 | 1.998 | -4.95270 | -4.93040 | -4.94260 | -4.93080 | .02230 | .01180 | -.14180 |
| .902 | 3.996 | -4.95270 | -4.93040 | -4.94260 | -4.93080 | .02230 | .01180 | -.15000 |
| .901 | 6.010 | -4.95270 | -4.93040 | -4.95390 | -4.93080 | .02230 | .02310 | -.15000 |
| .901 | 8.000 | -4.95270 | -4.94150 | -4.95390 | -4.93080 | .01120 | .02310 | -.15000 |
| .901 | 12.009 | -4.95270 | -4.93040 | -4.95390 | -4.93080 | .02230 | .02310 | -.15000 |
| .900 | 16.308 | -4.95270 | -4.93040 | -4.95390 | -4.93080 | .02230 | .02310 | -.14180 |
| .899 | 22.528 | -4.95270 | -4.94150 | -4.94260 | -4.92000 | .01120 | .02260 | -.15000 |
| | GRADIENT | -.00145 | -.00000 | .00114 | -.00000 | .00145 | -.00114 | -.00042 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

AMES 118-1-11 0A145A 01

(02F0E0) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = -11.700 SPOBRK = 25.000
 RN/L = 5.000

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 788/ 0 RN/L = 4.98

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|--------|--------|-----------|
| .598 | -14.976 | .00850 | .02040 | .00000 | .04950 | .01190 | .04950 | -18.05000 |
| .597 | -10.736 | .00850 | .02040 | .00000 | .03960 | .01190 | .03960 | -13.00600 |
| .597 | -4.939 | .00850 | .02040 | .00000 | .04950 | .01190 | .04950 | -6.01000 |
| .597 | -2.442 | .00850 | .02040 | .00000 | .03960 | .01190 | .03960 | -2.97460 |
| .598 | -.089 | .00850 | .02040 | .00000 | .03960 | .01190 | .03960 | -1.0890 |
| .598 | 2.522 | .00850 | .02040 | .00000 | .04950 | .01190 | .04950 | 3.07160 |
| .598 | 5.005 | .00850 | .02040 | .00000 | .04950 | .01190 | .04950 | 6.09000 |
| .597 | 10.011 | .00850 | .02040 | .00000 | .04950 | .01190 | .04950 | 12.13700 |
| .598 | 15.031 | .00850 | .02040 | .00000 | .04950 | .01190 | .04950 | 18.11600 |
| .597 | 18.134 | .00850 | .02040 | .00000 | .04950 | .01190 | .04950 | 21.75200 |
| .597 | 22.649 | .00850 | .02040 | .00000 | .04950 | .01190 | .04950 | 26.94600 |
| .597 | GRADIENT | .00000 | .00000 | .00000 | .00002 | .00000 | .00002 | 1.21726 |

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 803/ 0 RN/L = 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|--------|--------|-----------|
| .902 | -14.976 | .00850 | .01020 | .03450 | .02970 | .00170 | .00480 | -18.05000 |
| .902 | -10.745 | .00850 | .01020 | .02300 | .02970 | .00170 | .00670 | -13.01700 |
| .902 | -4.939 | .00850 | .01020 | .03450 | .02970 | .00170 | .00480 | -6.01000 |
| .902 | -2.442 | .00850 | .01020 | .03450 | .02970 | .00170 | .00480 | -2.97460 |
| .902 | -.096 | .00850 | .01020 | .03450 | .02970 | .00170 | .00480 | -1.1710 |
| .902 | 2.505 | .00850 | .02040 | .03450 | .02970 | .00170 | .00480 | 3.05070 |
| .902 | 5.014 | .00850 | .01020 | .03450 | .02970 | .00170 | .00480 | 6.10130 |
| .902 | 10.003 | .00850 | .01020 | .02300 | .02970 | .00170 | .00670 | 12.12800 |
| .902 | 15.005 | .00850 | .01020 | .03450 | .02970 | .00170 | .00480 | 18.08500 |
| .902 | 18.125 | .00850 | .01020 | .03450 | .02970 | .00170 | .00480 | 21.74200 |
| .901 | 22.602 | .00850 | .02040 | .03450 | .02970 | .00170 | .00480 | 26.89300 |
| .902 | GRADIENT | .00000 | .00126 | .00000 | .00000 | .00126 | .00000 | 1.21728 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(02F0E1) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 SDFLAP = 16.300 SPDBRK = 25.000
 RN/L = 5.000

RUN NO. 800/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|---------|---------|--------|---------|---------|-----------|
| .600 | -14.970 | .02550 | .02040 | .02300 | .02970 | -.00510 | .00670 | -18.04400 |
| .600 | -10.754 | .02550 | .02040 | .02300 | .02970 | -.00510 | .00670 | -13.02800 |
| .600 | -4.939 | .02550 | .02040 | .02300 | .02970 | -.00510 | .00670 | -6.01000 |
| .600 | -2.442 | .02550 | .02040 | .02300 | .02970 | -.00510 | .00670 | -2.97460 |
| .600 | -.110 | .02550 | .02040 | .02300 | .02970 | -.00510 | .00670 | -.13360 |
| .600 | 2.513 | .02550 | .02040 | .02300 | .02970 | -.00510 | .00670 | 3.06120 |
| .600 | 5.014 | .02550 | .02040 | .02300 | .02970 | -.00510 | .00670 | 6.10130 |
| .600 | 10.011 | .02550 | .02040 | .02300 | .02970 | -.00510 | .00670 | 12.13700 |
| .600 | 15.022 | .02550 | .02040 | .02300 | .02970 | -.00510 | .00670 | 18.10500 |
| .600 | 18.116 | .02550 | .02040 | .02300 | .02970 | -.00510 | .00670 | 21.73100 |
| .600 | 22.639 | .02550 | .02040 | .02300 | .02970 | -.00510 | .00670 | 26.93500 |
| .600 | GRADIENT | .00000 | -.00000 | -.00000 | .00000 | .00000 | -.00000 | 1.21728 |

RUN NO. 814/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|---------|--------|---------|---------|--------|-----------|
| .900 | -14.960 | .01700 | .04080 | .02300 | .04950 | .02380 | .02650 | -18.03200 |
| .900 | -10.727 | .01700 | .04080 | .02300 | .04950 | .02380 | .02650 | -12.99500 |
| .900 | -4.961 | .00850 | .04080 | .02300 | .04950 | .03230 | .02650 | -6.03730 |
| .901 | -2.434 | .01700 | .04080 | .02300 | .04950 | .02380 | .02650 | -2.96470 |
| .901 | -.116 | .01700 | .04080 | .02300 | .04950 | .02380 | .02650 | -.14180 |
| .900 | 2.513 | .01700 | .04080 | .02300 | .04950 | .02380 | .02650 | 3.06120 |
| .900 | 5.005 | .00850 | .04080 | .02300 | .04950 | .03230 | .02650 | 6.09000 |
| .900 | 10.003 | .00850 | .04080 | .02300 | .04950 | .03230 | .02650 | 12.12800 |
| .901 | 15.005 | .01700 | .04080 | .02300 | .04950 | .02380 | .02650 | 18.08500 |
| .901 | 18.125 | .01700 | .04080 | .02300 | .04950 | .02380 | .02650 | 21.74200 |
| .901 | 22.564 | .01700 | .04080 | .02300 | .04950 | .02380 | .02650 | 26.85000 |
| .901 | GRADIENT | .00103 | -.00000 | .00000 | -.00000 | -.00103 | .00000 | 1.21727 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(02F0E2) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 ELEVON = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BOFLAP = -11.700
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDBRK = 25.000 RUDDER = -5.000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 789/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|--------|--------|----------|
| .597 | -6.052 | .00350 | .02040 | .00000 | .01980 | .01190 | .01980 | -6.04640 |
| .597 | -1.918 | .00850 | .02040 | .00000 | .01980 | .01190 | .01980 | -6.03730 |
| .597 | -.870 | .00850 | .02040 | .00000 | .01980 | .01190 | .01980 | -6.03730 |
| .597 | .034 | .00850 | .02040 | .00000 | .01980 | .01190 | .01980 | -6.03730 |
| .597 | .648 | .00850 | .02040 | .00000 | .01980 | .01190 | .01980 | -6.03730 |
| .597 | 1.155 | .00850 | .02040 | .00000 | .01980 | .01190 | .01980 | -6.03730 |
| .597 | 2.192 | .00850 | .02040 | .00000 | .01980 | .01190 | .01980 | -6.03730 |
| .597 | 3.223 | .00850 | .02040 | .00000 | .01980 | .01190 | .01980 | -6.03730 |
| .597 | 4.257 | .00850 | .02040 | .00000 | .01980 | .01190 | .01980 | -6.04640 |
| .596 | 6.318 | .00850 | .02040 | .00000 | .01980 | .01190 | .01980 | -6.04640 |
| .595 | 8.361 | .00850 | .02040 | .00000 | .01980 | .01190 | .01980 | -6.04640 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.00096 |

RUN NO. 802/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|---------|--------|--------|---------|---------|----------|
| .901 | -6.123 | .00000 | -.02280 | .02300 | .02970 | -.02280 | .00570 | -6.00090 |
| .902 | -1.948 | .00850 | .01020 | .03450 | .02970 | .00170 | -.00480 | -6.01910 |
| .901 | -.899 | .00850 | .01020 | .03450 | .02970 | .00170 | -.00480 | -6.01910 |
| .900 | .160 | .00850 | .01020 | .03450 | .02970 | .00170 | -.00480 | -6.01910 |
| .901 | .671 | .00850 | .01020 | .03450 | .02970 | .00170 | -.00480 | -6.02820 |
| .900 | 1.182 | .00850 | .01020 | .03450 | .02970 | .00170 | -.00480 | -6.01910 |
| .900 | 2.226 | .00850 | .01020 | .03450 | .02970 | .00170 | -.00480 | -6.02820 |
| .900 | 3.269 | .00850 | .01020 | .03450 | .02970 | .00170 | -.00480 | -6.03730 |
| .899 | 4.312 | .00850 | .01020 | .03450 | .02970 | .00170 | -.00480 | -6.04640 |
| .896 | 6.387 | .00850 | .01020 | .03450 | .02970 | .00170 | -.00480 | -6.04640 |
| .895 | 8.449 | .00000 | .01020 | .03450 | .02970 | .01020 | -.00480 | -6.05550 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | -.00000 | -.00240 |

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OAI45 TABULATED FORCE DATA

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(02F0E3) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 ELEVON = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BOFLAP = 16.300
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDBRK = 25.000 RUDDER = -5.000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 801/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|---------|--------|---------|--------|---------|
| .601 | -6.038 | .0250 | .0204 | .0230 | .0297 | -.0051 | .0067 | -6.0100 |
| .601 | -1.924 | .0250 | .0204 | .0230 | .0297 | -.0051 | .0067 | -6.0100 |
| .600 | -.888 | .0250 | .0204 | .0230 | .0297 | -.0051 | .0067 | -6.0100 |
| .600 | .033 | .0250 | .0204 | .0230 | .0297 | -.0051 | .0067 | -6.0191 |
| .600 | .672 | .0250 | .0204 | .0230 | .0297 | -.0051 | .0067 | -6.0191 |
| .600 | 1.156 | .0250 | .0204 | .0230 | .0297 | -.0051 | .0067 | -6.0191 |
| .600 | 2.190 | .0250 | .0204 | .0230 | .0297 | -.0051 | .0067 | -6.0191 |
| .599 | 3.221 | .0250 | .0204 | .0230 | .0297 | -.0051 | .0067 | -6.0282 |
| .599 | 4.257 | .0250 | .0204 | .0230 | .0297 | -.0051 | .0067 | -6.0282 |
| .599 | 6.316 | .0250 | .0204 | .0230 | .0297 | -.0051 | .0067 | -6.0282 |
| .598 | 8.363 | .0250 | .0204 | .0230 | .0297 | -.0051 | .0067 | -6.0282 |
| .500 | 9.966 | .0250 | .0204 | .0230 | .0297 | -.0051 | .0067 | -6.0282 |
| | GRADIENT | .00000 | .00000 | -.00000 | .00000 | -.00000 | .00000 | -.00247 |

RUN NO. 815/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|---------|--------|---------|
| .899 | -6.107 | .0085 | .0408 | .0230 | .0495 | .0323 | .0255 | -6.0100 |
| .900 | -1.944 | .0085 | .0306 | .0230 | .0495 | .0221 | .0265 | -6.0191 |
| .899 | -.901 | .0085 | .0306 | .0230 | .0495 | .0221 | .0265 | -6.0191 |
| .900 | .122 | .0170 | .0306 | .0230 | .0495 | .0136 | .0265 | -6.0282 |
| .899 | .699 | .0085 | .0306 | .0230 | .0495 | .0221 | .0265 | -6.0282 |
| .899 | 1.181 | .0170 | .0306 | .0230 | .0495 | .0136 | .0265 | -6.0282 |
| .899 | 2.217 | .0170 | .0306 | .0230 | .0495 | .0136 | .0265 | -6.0282 |
| .898 | 3.259 | .0085 | .0306 | .0230 | .0495 | .0221 | .0265 | -6.0464 |
| .898 | 4.299 | .0085 | .0306 | .0230 | .0495 | .0221 | .0265 | -6.0555 |
| .898 | 6.371 | .0085 | .0306 | .0230 | .0495 | .0221 | .0265 | -6.0555 |
| .898 | 8.429 | .0085 | .0306 | .0230 | .0495 | .0221 | .0265 | -6.0282 |
| .894 | 10.480 | .0085 | .0306 | .0230 | .0495 | .0221 | .0265 | -6.0373 |
| .895 | | .00064 | .00000 | .00000 | .00000 | -.00064 | .00000 | -.00341 |
| | GRADIENT | .00064 | .00000 | .00000 | .00000 | -.00064 | .00000 | |

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OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(02F0E4) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 SPOBRK = .000 RUDDER = .000
 RN/L = 5.000

RUN NO. 656/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BOFLAP | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|--------|--------|---------|
| .598 | -11.653 | .00850 | .01020 | .00000 | .03960 | .00170 | .03960 | -.13360 |
| .598 | -7.940 | .00850 | .01020 | .00000 | .03960 | .00170 | .03960 | -.13360 |
| .598 | -5.927 | .00000 | .01020 | .00000 | .03960 | .01020 | .03960 | -.13360 |
| .598 | -3.950 | .00850 | .01020 | .00000 | .03960 | .00170 | .03960 | -.13360 |
| .599 | -1.950 | .00850 | .01020 | .00000 | .03960 | .00170 | .03960 | -.13360 |
| .598 | .010 | .00850 | .01020 | .00000 | .03960 | .00170 | .03960 | -.13360 |
| .598 | 1.998 | .00850 | .01020 | .00000 | .03960 | .00170 | .03960 | -.13360 |
| .598 | 3.996 | .00850 | .01020 | .00000 | .03960 | .00170 | .03960 | -.13360 |
| .598 | 6.020 | .00850 | .01020 | .00000 | .03960 | .00170 | .03960 | -.13360 |
| .598 | 8.010 | .00850 | .01020 | .00000 | .03960 | .00170 | .03960 | -.13360 |
| .598 | 11.999 | .00850 | .01020 | .00000 | .03960 | .00170 | .03960 | -.13360 |
| .598 | 16.308 | .00000 | .01020 | .00000 | .03960 | .01020 | .03960 | -.13360 |
| .598 | 22.547 | .00000 | .01020 | .00000 | .03960 | .01020 | .03960 | -.13360 |
| .598 | GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.00000 |

RUN NO. 643/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BOFLAP | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|--------|--------|--------|--------|--------|---------|
| .900 | -11.653 | .00850 | .01020 | .00000 | .00990 | .00170 | .00990 | -.12540 |
| .900 | -7.960 | .00850 | .01020 | .00000 | .00990 | .00170 | .00990 | -.11710 |
| .900 | -5.948 | .00850 | .01020 | .00000 | .00990 | .00170 | .00990 | -.11710 |
| .901 | -3.950 | .00850 | .01020 | .00000 | .00990 | .00170 | .00990 | -.11710 |
| .901 | -1.940 | .00850 | .01020 | .00000 | .00990 | .00170 | .00990 | -.11710 |
| .900 | .019 | .00000 | .01020 | .00000 | .00990 | .01020 | .00990 | -.11710 |
| .901 | 1.998 | .00000 | .01020 | .00000 | .00990 | .01020 | .00990 | -.11710 |
| .900 | 3.996 | .00000 | .01020 | .00000 | .00990 | .01020 | .00990 | -.11710 |
| .901 | 6.000 | .00000 | .01020 | .00000 | .00990 | .01020 | .00990 | -.10890 |
| .900 | 8.020 | .00000 | .01020 | .00000 | .00990 | .01020 | .00990 | -.11710 |
| .900 | 12.009 | .00000 | .01020 | .00000 | .00990 | .01020 | .00990 | -.11710 |
| .899 | 16.308 | .00000 | .01020 | .00000 | .00990 | .01020 | .00990 | -.10890 |
| .900 | 22.528 | -.01010 | .01020 | .00000 | .00990 | .02030 | .00990 | -.10890 |
| .900 | GRADIENT | -.00128 | .00000 | .00000 | .00000 | .00128 | .00000 | -.00000 |

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0A145 TABULATED FORCE DATA

PAGE 1571

AMES 118-1-11 0A145A 01

(D2F0E5) (08 JUL 77)

REFERENCE DATA

| | | | | | | | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|--------|--------|---|--------|---------|---|------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. X0 | ALPHA | = | 5.000 | BETA | = | .000 |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. Y0 | ELEVON | = | .300 | AILLRON | = | .000 |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. Z0 | SPDBRK | = | 55.000 | RUDDER | = | .000 |
| SCALE | = | .0500 | | | | | | RN/L | = | 5.000 | | | |

PARAMETRIC DATA

| | | | | | | |
|---------|--------|--------|------|---------------------|--------|------|
| RUN NO. | 597/ 0 | RN/L = | 5.05 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|---------|--------|--------|------|---------------------|--------|------|

| MACH | BDFLAP | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|---------|--------|--------|---------|---------|--------|---------|
| .395 | -11.653 | .01700 | .01020 | .01150 | .04950 | -.00580 | .03800 | -.17190 |
| .395 | -7.940 | .01700 | .01020 | .01150 | .04950 | .00680 | .03800 | -.16090 |
| .395 | -5.948 | .01700 | .01020 | .01150 | .04950 | .00680 | .03800 | -.16090 |
| .395 | -3.866 | .01700 | .01020 | .01150 | .04950 | .00680 | .03800 | -.17190 |
| .395 | -1.940 | .01700 | .01020 | .01150 | .04950 | .00680 | .03800 | -.17190 |
| .394 | .019 | .01700 | .01020 | .01150 | .04950 | .00680 | .03800 | -.17190 |
| .396 | 2.009 | .00850 | .01020 | .01150 | .04950 | .00170 | .03800 | -.17190 |
| .397 | 3.975 | .01700 | .01020 | .01150 | .04950 | .00680 | .03800 | -.18280 |
| .397 | 6.010 | .01700 | .01020 | .01150 | .04950 | .00680 | .03800 | -.18280 |
| .397 | 8.010 | .01700 | .01020 | .01150 | .04950 | .00680 | .03800 | -.19370 |
| .397 | 11.999 | .01700 | .01020 | .00000 | .04950 | .00680 | .04950 | -.19370 |
| .398 | 16.318 | .01700 | .01020 | .01150 | .04950 | .00680 | .03800 | -.18280 |
| .397 | 22.547 | .01700 | .01020 | .01150 | .04950 | .00680 | .03800 | -.10890 |
| CRADIANT | -.00043 | -.00043 | .00000 | .00000 | -.00000 | -.00043 | .00000 | -.00111 |

| | | | | | |
|---------|--------|--------|------|---------------------|-------------|
| RUN NO. | 595/ 0 | RN/L = | 4.95 | GRADIENT INTERVAL = | -5.00/ 5.00 |
|---------|--------|--------|------|---------------------|-------------|

[illegible]

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1572

AMES 118-1-11 OAI45A 01

(D2F0E5) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8100 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 SPOBRK = 55.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 569/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BOFLAP | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|---------|---------|---------|
| .899 | -11.653 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.15000 |
| .899 | -7.950 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.15000 |
| .899 | -5.927 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.15000 |
| .900 | -3.930 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.16090 |
| .901 | -1.940 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.19370 |
| .899 | .019 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.18280 |
| .900 | 2.008 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.17190 |
| .900 | 4.007 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.16090 |
| .900 | 6.000 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.16090 |
| .900 | 8.020 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.15000 |
| .899 | 12.009 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.15000 |
| .900 | 16.318 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.15000 |
| .899 | 22.585 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.14180 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | -.00000 | -.00000 | .00110 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8100 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 SPOBRK = 25.000
 RUDDER = .000 RN/L = 5.000

AMES 118-1-11 OAI45A 01

(D2F0E6) (08 JUL 77)

RUN NO. 844/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BOFLAP | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|----------|---------|----------|----------|----------|---------|
| .596 | -3.930 | .01700 | -3.93930 | .03450 | -3.92030 | -3.95630 | -3.95480 | -.19370 |
| .596 | -1.941 | .01700 | -1.95110 | .02300 | -1.93100 | -1.96810 | -1.95400 | -.15000 |
| .597 | .040 | .01700 | .03060 | .03450 | .04950 | .01360 | .01500 | -.15000 |
| .596 | 2.017 | .01700 | 2.01440 | .03450 | 2.02000 | 1.99740 | 1.98550 | -.15000 |
| .596 | 4.010 | .01700 | 4.00180 | .02300 | 4.01840 | 3.98480 | 3.99540 | -.15000 |
| | GRADIENT | -.00000 | 1.00048 | -.00058 | .99951 | 1.00048 | 1.00009 | .00441 |

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OAI145 TABULATED FORCE DATA

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AMES 118-1-11 OAI145A 01

(02F0E6) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELV-08 = .000 AILRON = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO RUDDER = .000 SPOBRK = 25.000
 SCALE = .0500

PARAMETRIC DATA

RUN NO. 838/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-IB | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|----------|--------|----------|----------|----------|---------|
| .900 | -3.925 | .01700 | -3.92890 | .00000 | -3.92030 | -3.94590 | -3.92030 | -.15000 |
| .900 | -1.935 | .02550 | -1.93030 | .00000 | -1.94080 | -1.95580 | -1.94080 | -.16090 |
| .899 | .030 | .02550 | .02040 | .00000 | .03960 | -.00510 | .03960 | -.15000 |
| .900 | 2.012 | .02550 | 2.00370 | .00000 | 2.02000 | 1.97820 | 2.02000 | -.15000 |
| .900 | 3.996 | .02550 | 3.99190 | .00000 | 4.00000 | 3.96640 | 4.00000 | -.15000 |
| | GRADIENT | .00086 | .99936 | .00000 | 1.00066 | .99850 | 1.00066 | .00055 |

RUN NO. 820/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-IB | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|----------|---------|----------|----------|----------|---------|
| 1.198 | -3.936 | .00850 | -3.92890 | .02300 | -3.94310 | -3.93740 | -3.96610 | -.10890 |
| 1.139 | -1.941 | .00850 | -1.95110 | .02300 | -1.93100 | -1.95960 | -1.95400 | -.10890 |
| 1.139 | .010 | .00850 | .01020 | .02300 | .00990 | .00170 | -.01310 | -.10890 |
| 1.139 | 2.022 | .00850 | 2.01440 | .02300 | 2.03000 | 2.00590 | 2.00700 | -.10890 |
| 1.200 | 4.010 | .00850 | 4.00180 | .01150 | 4.01840 | 3.99330 | 4.00690 | -.10890 |
| | GRADIENT | -.00000 | .99856 | -.00116 | 1.00144 | .99856 | 1.00260 | -.00000 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELV-08 = 5.000 AILRON = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO RUDDER = .000 SPOBRK = 25.000
 SCALE = .0500

PARAMETRIC DATA

RUN NO. 845/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-IB | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|----------|----------|---------|
| .597 | 1.025 | 4.99640 | 1.03000 | 5.00800 | 1.02020 | -3.96640 | -3.98780 | -.14180 |
| .597 | 3.022 | 4.98670 | 3.01470 | 5.00800 | 3.03000 | -1.97200 | -1.97800 | -.13360 |
| .596 | 5.016 | 4.98670 | 5.00470 | 4.99650 | 5.02630 | .01800 | .02980 | -.15000 |
| .597 | 7.008 | 4.98670 | 6.98300 | 4.99650 | 7.03270 | 1.99630 | 2.03620 | -.15000 |
| .597 | 9.025 | 4.98670 | 8.99000 | 4.99650 | 9.05940 | 4.00330 | 4.06290 | -.13360 |
| | GRADIENT | -.00486 | .99374 | .00000 | 1.00631 | .99860 | 1.00631 | .00411 |

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REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELV-OB = 5.000 AILRON = .000
 BOFLAP = .000 SPDBRK = 25.000
 RUDDER = .000 RN/L = 5.000

RUN NO. 839/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-IB | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|----------|----------|----------|
| .901 | 1.010 | 5.01580 | 1.00960 | 5.00800 | 1.01010 | -4.00620 | -3.99790 | -1.14180 |
| .900 | 3.023 | 5.01580 | 3.02570 | 5.00800 | 3.02000 | -1.99010 | -1.99800 | -1.14180 |
| .900 | 4.998 | 5.01580 | 4.96990 | 4.99650 | 5.02630 | -.04590 | .02980 | -1.14180 |
| .900 | 7.002 | 5.01580 | 6.98300 | 4.99650 | 7.02180 | 1.96720 | 2.02530 | -1.14180 |
| .898 | 9.023 | 5.01580 | 8.99820 | 4.99650 | 9.04770 | 3.98240 | 4.05120 | -1.5000 |
| | GRADIENT | .00000 | .99303 | -.00287 | 1.00699 | .99303 | 1.00987 | -.00000 |

RUN NO. 821/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-IB | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|---------|---------|----------|----------|---------|
| 1.200 | 1.005 | 4.98670 | .99940 | 5.00800 | 1.01010 | -3.98730 | -3.99790 | -1.1710 |
| 1.201 | 3.007 | 4.98670 | 3.00370 | 5.00800 | 3.01000 | -1.98300 | -1.99800 | -1.1710 |
| 1.200 | 4.998 | 4.98670 | 4.96990 | 5.00800 | 5.02630 | -.01680 | .01830 | -1.1710 |
| 1.199 | 6.999 | 4.98670 | 6.95490 | 5.00800 | 7.04360 | 1.96820 | 2.03560 | -1.1710 |
| 1.200 | 9.025 | 4.98670 | 8.99000 | 5.00800 | 9.05940 | 4.00330 | 4.05140 | -1.3360 |
| | GRADIENT | .00000 | .99430 | .00000 | 1.00573 | .99430 | 1.00573 | .00000 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELV-OB = -5.000 AILRON = .000
 BOFLAP = .000 SPDBRK = 25.000
 RUDDER = .000 RN/L = 5.000

RUN NO. 846/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-IB | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|----------|----------|----------|----------|----------|----------|----------|
| .600 | -8.929 | -4.96230 | -8.93040 | -4.93130 | -8.92860 | -3.96810 | -3.99730 | -1.14180 |
| .598 | -6.943 | -4.96230 | -6.94640 | -4.94260 | -6.93940 | -1.98410 | -1.99680 | -1.3360 |
| .598 | -4.925 | -4.96230 | -4.93040 | -4.93130 | -4.92000 | .03190 | .01130 | -1.14180 |
| .597 | -2.930 | -4.96230 | -2.93000 | -4.94260 | -2.92970 | 2.03230 | 2.01290 | -1.14180 |
| .598 | -.942 | -4.96230 | -.93370 | -4.94260 | -.94950 | 4.02870 | 3.99310 | -1.3360 |
| | GRADIENT | .00000 | 1.00329 | -.00284 | .99671 | 1.00331 | .99955 | .00206 |

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(02F0E8) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELV-OB = -5.000 AILRON = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO BDFLAP = .000 SPDBRK = 25.000
 SCALE = .0500 RUDDER = .000 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 840/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-1B | ELV-L0 | ELV-L1 | ELV-R0 | ELV-R1 | DELL | DELR | DRHL |
|------|----------|----------|----------|----------|----------|----------|----------|---------|
| .900 | -8.940 | -4.93350 | -8.94200 | -4.94260 | -8.93880 | -4.00850 | -3.99620 | -1.5000 |
| .900 | -6.932 | -4.94310 | -6.92480 | -4.94260 | -6.93940 | -1.98170 | -1.99680 | -1.5000 |
| .900 | -4.925 | -4.94310 | -4.91930 | -4.95390 | -4.93080 | .02380 | .02310 | -1.5000 |
| .900 | -2.935 | -4.95270 | -2.94000 | -4.94260 | -2.92970 | 2.01270 | 2.01290 | -1.5000 |
| .899 | .911 | -4.95270 | -.93370 | -4.95390 | -.88890 | 4.01910 | 4.06500 | -1.5000 |
| | GRADIENT | -.00239 | .99299 | -.00002 | 1.00703 | .99540 | 1.00705 | .00000 |

RUN NO. 822/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-1B | ELV-L0 | ELV-L1 | ELV-R0 | ELV-R1 | DELL | DELR | DRHL |
|-------|----------|----------|----------|----------|----------|----------|----------|---------|
| 1.205 | -8.940 | -4.94310 | -8.94200 | -4.94260 | -8.93880 | -3.99890 | -3.99620 | -1.4180 |
| 1.201 | -6.942 | -4.93350 | -6.93560 | -4.94260 | -6.94950 | -2.00210 | -2.00690 | -1.5000 |
| 1.201 | -4.936 | -4.94310 | -4.94150 | -4.95390 | -4.93080 | .00160 | .02310 | -1.4180 |
| 1.200 | -2.930 | -4.94310 | -2.93000 | -4.95390 | -2.92970 | 2.01310 | 2.02420 | -1.5000 |
| 1.200 | -.936 | -4.94310 | -.93370 | -4.94260 | -.93940 | 4.00950 | 4.00320 | -1.5000 |
| | GRADIENT | .00000 | 1.00205 | .00282 | .99795 | 1.00208 | .99513 | -.00205 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELV-1B = -5.000 AILRON = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO BDFLAP = .000 SPDBRK = 25.000
 SCALE = .0500 RUDDER = .000 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 847/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-1B | ELV-L0 | ELV-L1 | ELV-R0 | ELV-R1 | DELL | DELR | DRHL |
|------|----------|----------|---------|----------|--------|----------|----------|---------|
| .598 | -3.951 | -3.95150 | .03060 | -3.95000 | .00990 | 3.98200 | 3.95990 | -1.2540 |
| .598 | -1.980 | -1.99800 | .03060 | -1.96240 | .00990 | 2.02860 | 1.97230 | -1.1710 |
| .598 | .016 | .00850 | .03060 | .02300 | .01980 | .02210 | -.00320 | -1.1710 |
| .598 | 1.996 | 1.98430 | .03060 | 2.00840 | .01980 | -1.95370 | -1.98860 | -1.1710 |
| .598 | 4.002 | 3.99240 | .03060 | 4.01110 | .00990 | -3.96180 | -4.00120 | -1.1710 |
| | GRADIENT | .99943 | -.00000 | 1.00057 | .00050 | -.99942 | -1.00008 | .00083 |

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REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELV-IB = .000 AILRON = .000
 BDFLAP = .000 SPOBRK = 25.000
 RUDDER = .000 RN/L = 5.000

RUN NO. 841/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-OB | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|--------|----------|--------|----------|----------|----------|
| .900 | -3.951 | -3.95150 | .03060 | -3.95000 | .01980 | 3.98200 | 3.95980 | -1.17190 |
| .900 | -1.954 | -1.94600 | .03060 | -1.96240 | .01980 | 1.97660 | 1.96220 | -1.15000 |
| .899 | .024 | .02550 | .02040 | .02300 | .02970 | -.00510 | .00670 | -1.60900 |
| .900 | 2.007 | 2.00570 | .03060 | 2.00840 | .02970 | -1.97510 | -1.97870 | -1.14180 |
| .899 | 4.017 | 4.02300 | .03060 | 4.01110 | .02970 | -3.99240 | -3.98140 | -1.13360 |
| GRADIENT | | 1.00019 | .00000 | .99980 | .00149 | -1.00018 | -.99831 | .00426 |

RUN NO. 823/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-OB | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|--------|----------|---------|----------|----------|----------|
| 1.201 | -3.946 | -3.94190 | .02040 | -3.95000 | .02970 | 3.96230 | 3.97970 | -1.15000 |
| 1.200 | -1.954 | -1.94600 | .03060 | -1.96240 | .02970 | 1.97660 | 1.99210 | -1.15000 |
| 1.201 | .000 | .00000 | .02040 | .00000 | .02970 | .02040 | .02970 | -1.15000 |
| 1.200 | 1.997 | 1.99500 | .03060 | 1.99830 | .02970 | -1.96440 | -1.96860 | -1.15000 |
| 1.201 | 3.997 | 3.99220 | .03060 | 4.01110 | .02970 | -3.95160 | -3.98140 | -1.15000 |
| GRADIENT | | .99762 | .00103 | 1.00235 | -.00000 | -.99659 | -1.00235 | .00000 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELV-IB = .000 AILRON = .000
 BDFLAP = .000 SPOBRK = 25.000
 RUDDER = .000 RN/L = 5.000

RUN NO. 848/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-OB | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|---------|---------|---------|----------|----------|----------|
| .597 | 1.019 | 1.01400 | 4.96990 | 1.02350 | 5.04770 | 3.95590 | 4.02420 | -1.10070 |
| .598 | 3.009 | 2.99500 | 4.96990 | 3.02310 | 5.04770 | 1.97490 | 2.02460 | -1.10070 |
| .598 | 5.008 | 4.99640 | 4.96990 | 5.01950 | 5.04770 | -.02650 | .02820 | -.09250 |
| .598 | 7.015 | 7.01690 | 4.96990 | 7.01360 | 5.04770 | -2.04700 | -1.96590 | -1.10070 |
| .598 | 9.015 | 9.01020 | 4.96990 | 9.02090 | 5.03700 | -4.04030 | -3.98390 | -1.10070 |
| GRADIENT | | .99533 | .00000 | 1.00467 | .00000 | -.99533 | -1.00467 | .00000 |

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REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. X0
 YMRP = .0000 IN. Y0
 ZMRP = 375.0000 IN. Z0

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELV-18 = 5.000 AILRON = .000
 BDFLAP = .000 SPDBRK = 25.000
 RUDDER = .000 RN/L = 5.000

RUN NO. 842/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-OB | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|---------|---------|---------|----------|----------|---------|
| .900 | 1.014 | 1.00490 | 4.99310 | 1.02350 | 5.03700 | 3.98830 | 4.01350 | -1.5000 |
| .899 | 3.014 | 3.01560 | 4.99310 | 3.01340 | 5.03700 | 1.97760 | 2.02360 | -1.4180 |
| .901 | 5.002 | 4.99640 | 4.99310 | 5.00800 | 5.02630 | -0.0330 | 0.1830 | -1.4180 |
| .899 | 7.002 | 6.99020 | 4.99310 | 7.01360 | 5.02630 | -1.99710 | -1.98730 | -1.2540 |
| .900 | 9.015 | 9.01020 | 4.99310 | 9.02090 | 5.02630 | -4.01710 | -3.99460 | -1.1360 |
| GRADIENT | | 1.00520 | .00000 | .99480 | .00000 | -1.00525 | -.99480 | .00410 |

RUN NO. 824/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-OB | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|---------|---------|---------|----------|----------|---------|
| 1.200 | 1.005 | .98660 | 4.98150 | 1.02350 | 5.03700 | 3.99490 | 4.01350 | -1.5000 |
| 1.200 | 3.014 | 3.01560 | 4.98150 | 3.01340 | 5.03700 | 1.96590 | 2.02360 | -1.5000 |
| 1.201 | 4.998 | 4.97700 | 4.98150 | 5.01950 | 5.03700 | .00450 | 0.1750 | -1.6090 |
| 1.200 | 7.006 | 6.99910 | 4.96990 | 7.01360 | 5.03700 | -2.02920 | -1.97660 | -1.7190 |
| 1.200 | 9.007 | 9.00240 | 4.98150 | 9.01120 | 5.03700 | -4.02090 | -3.97420 | -1.7190 |
| GRADIENT | | .99935 | .00000 | 1.00070 | .00000 | -.99935 | -1.00070 | -.00272 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. X0
 YMRP = .0000 IN. Y0
 ZMRP = 375.0000 IN. Z0

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELV-18 = -5.000 AILRON = .000
 BDFLAP = .000 SPDBRK = 25.000
 RUDDER = .000 RN/L = 5.000

RUN NO. 849/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-OB | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|----------|----------|----------|----------|---------|
| .598 | -8.945 | -8.93860 | -4.91930 | -8.95130 | -4.92000 | 4.01930 | 4.03130 | -1.0070 |
| .598 | -6.944 | -6.95730 | -4.91930 | -6.93000 | -4.92000 | 2.01000 | 2.01000 | -.09250 |
| .598 | -4.937 | -4.94310 | -4.91930 | -4.93130 | -4.92000 | .02380 | .01130 | -1.0070 |
| .598 | -2.940 | -2.94240 | -4.91930 | -2.93840 | -4.92000 | -1.97690 | -1.98160 | -.08430 |
| .598 | -.940 | -.94950 | -4.91930 | -.93090 | -4.92000 | -3.96980 | -3.98910 | -.08430 |
| GRADIENT | | .99915 | .00000 | 1.00085 | .00000 | -.99915 | -1.00085 | .00410 |

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REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELV-IB = -5.000 AILRON = .000
 BDFLAP = .000 SPDBRK = 25.000
 RUDDER = .000 RN/L = 5.000

RUN NO. 843/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-OB | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|----------|----------|----------|----------|---------|
| .901 | -8.960 | -8.94880 | -4.93040 | -8.97190 | -4.93080 | 4.01840 | 4.04110 | -15000 |
| .901 | -6.948 | -6.96690 | -4.93040 | -6.93000 | -4.92000 | 2.03650 | 2.01000 | -14180 |
| .900 | -4.952 | -4.97190 | -4.93040 | -4.93130 | -4.92000 | .04150 | .01130 | -14180 |
| .901 | -2.951 | -2.94240 | -4.93040 | -2.95880 | -4.92000 | -1.98800 | -1.96120 | -14180 |
| .899 | -930 | -92930 | -4.93040 | -93090 | -4.92000 | -4.00110 | -3.98910 | -14180 |
| GRADIENT | | 1.00523 | .00000 | .99477 | .00000 | -1.00523 | -.99477 | -100000 |

RUN NO. 825/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-OB | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|----------|----------|----------|----------|--------|
| 1.203 | -8.960 | -8.94880 | -4.94150 | -8.97190 | -4.94160 | 4.00730 | 4.03030 | -16090 |
| 1.201 | -6.951 | -6.93810 | -4.94150 | -6.96300 | -4.94160 | 1.99660 | 2.02140 | -18280 |
| 1.200 | -4.953 | -4.95270 | -4.94150 | -4.95390 | -4.94160 | .01120 | .01230 | -18280 |
| 1.201 | -2.956 | -2.94240 | -4.95260 | -2.96900 | -4.94160 | -2.01020 | -1.97260 | -18280 |
| 1.200 | -946 | -94950 | -4.94150 | -94160 | -4.94160 | -3.99200 | -4.00000 | -18280 |
| GRADIENT | | .99884 | .00001 | 1.00113 | .00000 | -.99884 | -1.00113 | .00000 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELVON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

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RUN NO. 850/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIL-IB | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|----------|--------|----------|----------|----------|---------|
| .597 | -3.984 | .02550 | -3.93930 | .00000 | 4.02760 | -3.96480 | 4.02760 | -.08430 |
| .598 | -1.980 | .02550 | -1.94070 | .00000 | 2.02000 | -1.96620 | 2.02000 | -.09250 |
| .598 | -.004 | .00850 | .03060 | .00000 | .03960 | .02210 | .03960 | -.09250 |
| .598 | 1.977 | .00850 | 2.00370 | .00000 | -1.95060 | 1.99520 | -1.95060 | -1.0070 |
| .598 | 3.967 | .00850 | 4.00180 | .00000 | -3.93170 | 3.99330 | -3.93170 | -.08430 |
| GRADIENT | | -.00257 | .99842 | .00000 | -1.00158 | 1.00099 | -1.00158 | -.00041 |

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REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 832/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIL-1B | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|--------|----------|--------|----------|----------|----------|----------|
| .900 | -3.978 | .00850 | -3.92890 | .00000 | 4.02760 | -3.93740 | 4.02760 | -0.0430 |
| .899 | -1.986 | .00850 | -1.95110 | .00000 | 2.02000 | -1.95960 | 2.02000 | -0.07610 |
| .900 | .015 | .02550 | .04080 | .00000 | .00990 | .01530 | .00990 | -0.07610 |
| .899 | 1.978 | .00000 | 2.01440 | .00000 | -1.94080 | 2.01440 | -1.94080 | -0.09250 |
| .901 | 3.956 | .02550 | 3.99190 | .00000 | -3.92030 | 3.96640 | -3.92030 | -0.09250 |
| GRADIENT | | .00129 | .99874 | .00000 | -1.00125 | .99745 | -1.00125 | -0.00165 |

RUN NO. 826/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIL-1B | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|--------|----------|---------|----------|----------|----------|----------|
| 1.200 | -3.974 | .00000 | -3.93930 | .02300 | 4.00920 | -3.93930 | 3.98620 | -0.05960 |
| 1.200 | -1.975 | .00000 | -1.93030 | .02300 | 2.02000 | -1.93030 | 1.99700 | -0.14180 |
| 1.199 | -.020 | .00000 | .00000 | .02300 | .03960 | .00000 | .01660 | -0.14180 |
| 1.201 | 1.978 | .00000 | 2.01440 | .02300 | -1.94080 | 2.01440 | -1.96380 | -0.14180 |
| 1.200 | 3.967 | .00000 | 4.00180 | .02300 | -3.93170 | 4.00180 | -3.95470 | -0.14180 |
| GRADIENT | | .00000 | .99961 | -.00000 | -1.00038 | .99961 | -1.00038 | -0.00829 |

AMES 118-1-11 OAI45A 01

(DEF0F3) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 851/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIL-1B | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|---------|---------|---------|----------|----------|----------|
| .598 | -4.008 | 5.01580 | 1.01980 | 5.00800 | 9.03600 | -3.99600 | 4.02800 | -0.07610 |
| .598 | -2.014 | 5.00610 | 3.02570 | 5.00800 | 7.05450 | -1.98040 | 2.04650 | -0.06790 |
| .598 | -.022 | 5.00610 | 4.98150 | 5.00800 | 5.02630 | -.02460 | .01830 | -0.08430 |
| .598 | 1.993 | 5.00610 | 6.99700 | 5.01950 | 3.01000 | 1.99090 | -2.00950 | -0.07610 |
| .598 | 4.420 | 5.00610 | 9.85120 | 5.00800 | 1.01010 | 4.84510 | -3.99790 | -0.08430 |
| GRADIENT | | -.00091 | 1.03654 | .00051 | -.96147 | 1.03945 | -.96197 | -0.00119 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

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AMES 118-1-11 0A145A 01

(02F0F3) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = 5.000 BOFLAP = .000
 SPDRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 833/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH
 .901
 .899
 .899
 .899
 .899

AIL-18 ELV-LO ELV-LI ELV-RO ELV-RI DELL DELR DRHL
 -4.008 5.00610 1.01980 5.00800 9.03600 -3.98630 4.02800 -23740
 -2.014 5.00610 3.00370 4.99650 7.03270 -2.00240 2.03620 -15000
 -.034 5.00610 4.96990 5.00800 5.03700 -.03620 .02900 -.16090
 1.981 5.00610 6.98300 5.00800 3.02000 1.97690 -1.98800 -15000
 4.424 5.01580 9.85830 4.99650 1.01010 4.84300 -3.98640 -17190
 GRADIENT .00097 1.03996 -.00060 -.96003 1.03899 -.95943 .00601

RUN NO. 827/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH
 1.200
 1.200
 1.199
 1.200
 1.200

AIL-18 ELV-LO ELV-LI ELV-RO ELV-RI DELL DELR DRHL
 -4.013 4.98670 1.00960 5.00800 9.03600 -3.97710 4.02800 -14180
 -2.009 4.98670 3.00370 5.00800 7.02180 -1.98300 2.01380 -14180
 -.034 4.98670 4.96990 5.00800 5.03700 -.01680 .02900 -14180
 1.981 4.98670 6.98300 5.00800 3.02000 1.99630 -1.98800 -13360
 4.424 4.97700 9.85880 5.00800 1.01010 4.88180 -3.99790 -13360
 GRADIENT -.00097 1.04068 .00000 -.95931 1.04165 -.95931 .00118

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = -5.000 BOFLAP = .000
 SPDRK = 25.000 RUDDER = .000
 RN/L = 5.000

AMES 118-1-11 0A145A 01

(02F0F4) (08 JUL 77)

RUN NO. 852/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH
 .600
 .598
 .598
 .598
 .598

AIL-18 ELV-LO ELV-LI ELV-RO ELV-RI DELL DELR DRHL
 -4.564 -4.93350 -10.05700 -4.93130 -9.92930 -5.12330 4.00200 -57610
 -2.377 -4.93350 -7.69580 -4.93130 -2.94110 -2.76230 1.99020 -58430
 -.284 -4.93350 -5.49830 -4.93130 -4.93080 -.56480 .00050 -.08430
 1.925 -4.94310 -3.09000 -4.93130 -6.93940 -1.85310 -2.00810 -.07610
 3.940 -4.94310 -1.05890 -4.92000 -8.93880 -3.88420 -4.01880 -.08430
 GRADIENT -.00135 1.06082 .00105 -.93919 1.06215 -.94024 -.00038

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OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(02F0F4) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = -5.000 BDFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPOBRK = 25.000 RUDDER = .000
 SCALE = .0500

PARAMETRIC DATA

RUN NO. 834/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIL-IB | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|----------|-----------|----------|----------|----------|----------|----------|
| .902 | -4.564 | -4.96230 | -10.06800 | -4.93130 | -9.3940 | -5.10560 | 3.99190 | -1.16090 |
| .900 | -2.383 | -4.95270 | -7.69580 | -4.92000 | -2.92970 | -2.74310 | 1.99030 | -1.16090 |
| .900 | -.289 | -4.96230 | -5.50820 | -4.92000 | -4.93080 | -5.4590 | -0.1080 | -1.16090 |
| .899 | 1.915 | -4.96230 | -3.11000 | -4.94260 | -6.93940 | 1.85230 | -1.99680 | -1.16090 |
| .899 | 3.945 | -4.96230 | -1.05890 | -4.93130 | -8.94900 | 3.90340 | -4.01770 | -1.17190 |
| | GRADIENT | -.00045 | 1.06056 | -.00107 | -.93945 | 1.06099 | -.93838 | -.00153 |

RUN NO. 828/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIL-IB | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|----------|-----------|----------|----------|----------|----------|----------|
| 1.201 | -4.575 | -4.96230 | -10.09000 | -4.94260 | -9.3940 | -5.12780 | 4.00320 | -1.14180 |
| 1.200 | -2.389 | -4.96230 | -7.69580 | -4.94260 | -2.91830 | -2.73350 | 2.02430 | -1.14180 |
| 1.201 | -.294 | -4.96230 | -5.50820 | -4.94260 | -4.92000 | -5.4590 | .02260 | -1.14180 |
| 1.200 | 1.910 | -4.97190 | -3.11000 | -4.95390 | -6.92930 | 1.86190 | -1.97540 | -1.14180 |
| 1.201 | 3.934 | -4.97190 | -1.07030 | -4.94260 | -8.93880 | 3.90160 | -3.99620 | -1.15000 |
| | GRADIENT | -.00135 | 1.06152 | -.00055 | -.93848 | 1.06288 | -.93794 | -.00076 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 BDFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPOBRK = 25.000 RUDDER = .000
 SCALE = .0500

PARAMETRIC DATA

AMES 118-1-11 OAI45A 01

(02F0F5) (08 JUL 77)

RUN NO. 853/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIL-OB | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|----------|--------|----------|--------|----------|----------|----------|
| .597 | -3.991 | -3.96100 | .02040 | 4.02100 | .01980 | 3.98140 | -4.00120 | -1.06790 |
| .598 | -1.982 | -1.94600 | .02040 | 2.01850 | .02970 | 1.96640 | -1.98880 | -1.16090 |
| .598 | -.007 | .00850 | .02040 | .02300 | .02970 | .01190 | .00670 | -1.15000 |
| .598 | 1.984 | 2.00570 | .02040 | -1.96240 | .02970 | -1.98530 | 1.99210 | -1.15000 |
| .598 | 3.976 | 4.00260 | .02040 | -3.95000 | .02970 | -3.98220 | 3.97970 | -1.17190 |
| | GRADIENT | .99889 | .00000 | -1.00110 | .00100 | -.99889 | 1.00209 | -.00992 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT.

LREF = 474.8100 INCHES

BREF = 936.6800 INCHES

SCALE = .0500

AMES 118-1-11 0A145A 01

1076.6800 IN. XO

.0000 IN. YO

375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 5.000

BETA = .000

BOFLAP = .000

SPDBRK = 25.000

RN/L = 5.000

| RUN NO. 835/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | |
|--|--------|----------|---------|----------|--------|----------|----------|--------|--|
| MACH | AIR-OB | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL | |
| .899 | -3.977 | -3.94180 | .04080 | 4.01110 | .00990 | 3.98270 | -4.00120 | -15000 | |
| .899 | -1.962 | -1.92520 | .04080 | 1.99830 | .01980 | 1.96600 | -1.97850 | -15000 | |
| .900 | .001 | .00850 | .04080 | .01150 | .01980 | .03230 | .00830 | -15000 | |
| .900 | 1.979 | 1.99500 | .04080 | -1.96240 | .01980 | -1.95420 | 1.98220 | -15000 | |
| .899 | 3.971 | 3.99240 | .04080 | -3.95000 | .01980 | -3.95160 | 3.96980 | -14180 | |
| GRADIENT | | .99763 | -.00000 | -1.00236 | .00100 | -.99763 | 1.00336 | .00083 | |
| RUN NO. 829/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | |
| MACH | AIR-OB | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL | |
| 1.200 | -3.986 | -3.95150 | .01020 | 4.02100 | .00990 | 3.96170 | -4.01110 | -15000 | |
| 1.200 | -1.987 | -1.95640 | .01020 | 2.01850 | .01980 | 1.96660 | -1.99870 | -14180 | |
| 1.201 | -.012 | .00000 | .01020 | .02300 | .01980 | .01020 | -.00320 | -14180 | |
| 1.199 | 1.979 | 2.00570 | .01020 | -1.99530 | .01980 | -1.99550 | 1.97280 | -14180 | |
| 1.201 | 3.971 | 3.99240 | .01020 | -3.95000 | .01980 | -3.98220 | 3.96980 | -15000 | |
| GRADIENT | | .99840 | -.00000 | -1.00160 | .00100 | -.99840 | 1.00259 | .00000 | |

REFERENCE DATA

SREF = 2690.0000 SQ.FT.

LREF = 474.8100 INCHES

BREF = 936.6800 INCHES

SCALE = .0500

AMES 118-1-11 0A145A 01

1076.6800 IN. XO

.0000 IN. YO

375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 5.000

BETA = .000

BOFLAP = .000

SPDBRK = 25.000

RN/L = 5.000

| RUN NO. 854/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | |
|--|--------|---------|---------|----------|---------|----------|----------|---------|--|
| MACH | AIR-OB | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL | |
| .597 | -4.008 | 1.00490 | 4.98150 | 9.02090 | 5.04770 | 3.97670 | -3.97320 | -15000 | |
| .598 | -2.004 | 3.01560 | 4.98150 | 7.02440 | 5.04770 | 1.96590 | -1.97670 | -15000 | |
| .598 | -.006 | 4.99640 | 4.98150 | 5.00800 | 5.04770 | -.01490 | .03970 | -15000 | |
| .597 | 1.998 | 6.99910 | 4.98150 | 3.00370 | 5.03700 | -2.01760 | 2.03330 | -15000 | |
| .598 | 3.993 | 9.01020 | 4.98150 | 1.02350 | 5.04770 | -4.02870 | 4.02420 | -15000 | |
| GRADIENT | | .99947 | .00000 | -1.00054 | -.00054 | -.99948 | 1.00000 | -.00000 | |

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OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(02F0F6) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = 5.000 BOFLAP = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPOBRK = 25.000 RUDDER = .000
SCALE = .0500

PARAMETRIC DATA

RUN NO. 836/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | | | | | |
|----------|--------|---------|---------|----------|---------|----------|----------|---------|
| MACH | AIL-OB | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
| .900 | -4.003 | 1.00490 | 4.98150 | 9.01120 | 5.02630 | 3.97670 | -3.98490 | -.14180 |
| .900 | -1.999 | 3.01560 | 4.98150 | 7.01360 | 5.02630 | 1.96590 | -1.98730 | -.15000 |
| .899 | -.001 | 5.00610 | 4.98150 | 5.00800 | 5.02630 | -.02460 | .01830 | -.15000 |
| .899 | 1.988 | 6.99910 | 4.98150 | 3.02310 | 5.03700 | -2.01760 | 2.01390 | -.15000 |
| .900 | 4.005 | 9.01020 | 4.98150 | 1.00050 | 5.02630 | -4.02870 | 4.02580 | -.15000 |
| GRADIENT | | .99955 | .00000 | -1.00045 | .00053 | -.99956 | 1.00098 | -.00082 |

RUN NO. 830/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | | | | | |
|----------|--------|---------|---------|---------|---------|----------|----------|---------|
| MACH | AIL-OB | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
| 1.200 | -4.017 | .98660 | 4.95830 | 9.02090 | 5.02630 | 3.97160 | -3.99460 | -.14180 |
| 1.201 | -2.004 | 3.00530 | 4.95830 | 7.01360 | 5.02630 | 1.95300 | -1.98730 | -.14180 |
| 1.201 | -.015 | 4.97700 | 4.95830 | 5.00800 | 5.01560 | -.01870 | .00760 | -.14180 |
| 1.201 | 1.993 | 7.00800 | 4.95830 | 3.02310 | 5.02630 | -2.04970 | 2.00320 | -.15000 |
| 1.200 | 3.999 | 9.01020 | 4.95830 | 1.01200 | 5.02630 | -4.05190 | 4.01430 | -.14180 |
| GRADIENT | | 1.00104 | -.00000 | -.99896 | .00000 | -1.00103 | .99896 | -.00041 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = 5.000 BOFLAP = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPOBRK = 25.000 RUDDER = .000
SCALE = .0500

PARAMETRIC DATA

RUN NO. 855/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | | | | | |
|----------|--------|----------|----------|----------|----------|----------|----------|---------|
| MACH | AIL-OB | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
| .599 | -3.998 | -8.94880 | -4.93040 | -95230 | -4.92000 | 4.01840 | -3.96770 | -.13360 |
| .598 | -2.024 | -6.99570 | -4.91930 | -2.94860 | -4.92000 | 2.07640 | -1.97140 | -.15000 |
| .598 | -.005 | -4.95270 | -4.91930 | -4.94260 | -4.92000 | .03340 | .02260 | -.15000 |
| .598 | 2.010 | -2.93280 | -4.91930 | -6.95200 | -4.92000 | -1.98650 | 2.03200 | -.15000 |
| .598 | 4.006 | -9.94950 | -4.91930 | -8.96160 | -4.92000 | -3.96980 | 4.04160 | -.16090 |
| GRADIENT | | 1.00099 | .00110 | -.99900 | .00000 | -.99989 | .99900 | -.00272 |

AMES 118-1-11 OAI45A 01

(02F0F7) (08 JUL 77)

OAI45 TABULATED FORCE DATA

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(DEF07) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = -5.000 BDFLAP = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPOBRK = 25.000 RUDDER = .000
SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 837/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH .899
.900
.901
.901
.900
GRADIENT
AIL-OB -4.009
-1.990
.005
2.001
4.001
ELV-LO -8.95900
-6.93810
-4.94310
-2.96160
-.95960
.99828
ELV-LI -4.91930
-4.91930
-4.93040
-4.93040
-4.93040
-.00166
ELV-RO -7.94160
-2.95880
-4.95390
-6.96300
-8.96160
-1.00172
ELV-RI -4.93080
-4.93080
-4.92000
-4.92000
-4.92000
.00162
DELL 4.03970
2.01880
.01270
-1.96880
-3.97080
-.99994
DEL R -3.98920
-1.97200
.03390
2.04300
4.04160
1.00334
DRHL -1.5000
-1.5000
-1.5000
-1.5000
-1.5000
.00000

RUN NO. 831/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH 1.201
1.200
1.200
1.201
1.200
GRADIENT
AIL-OB -3.998
-1.999
-.005
1.984
4.011
ELV-LO -8.93860
-6.95730
-4.95270
-2.96160
-.93940
.99957
ELV-LI -4.93040
-4.93040
-4.93040
-4.94150
-.00166
ELV-RO -7.94160
-2.95880
-4.94260
-6.93000
-8.96160
-1.00043
ELV-RI -4.94160
-4.94160
-4.94160
-4.93080
.00108
DELL 4.00820
2.02690
.02230
-1.97990
-4.00210
-1.00123
DEL R -4.00000
-1.98280
.00100
1.98840
4.03080
1.00151
DRHL -1.14180
-1.15000
-1.14180
-1.15000
-1.14180
.00000

DATE 10 MAR 80

OA145 TABULATED FORCE DATA

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AMES 118-1-11 OA145A 01

(02F0F8) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ. FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 18.700
AILRON = .000
SPDBRK = 25.000
RUDDER = 3.000
ELEVON = .000
BOFLAP = .000

RUN NO. 320/ 0 RN/L = 2.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|---------|---------|--------|
| .399 | -3.984 | .01700 | .02040 | .00000 | .02970 | .00340 | .02970 | .00000 |
| .399 | -2.924 | .01700 | .02040 | .00000 | .01980 | .00340 | .01980 | .00000 |
| .400 | -1.851 | .01700 | .02040 | .00000 | .01980 | .00340 | .01980 | .00000 |
| .401 | -1.328 | .01700 | .02040 | .00000 | .01980 | .00340 | .01980 | .00000 |
| .400 | -.807 | .01700 | .02040 | .01150 | .01980 | .00340 | .00830 | .00000 |
| .400 | -.284 | .02550 | .02040 | .01150 | .01980 | .00510 | .00830 | .00000 |
| .400 | .238 | .01700 | .02040 | .01150 | .00990 | .00340 | -.00160 | .00000 |
| .400 | .743 | .01700 | .02040 | .01150 | .00990 | .00340 | -.00160 | .00000 |
| .400 | 1.248 | .02550 | .02040 | .01150 | .01980 | .00510 | .00830 | .00000 |
| .400 | 1.746 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | .00000 |
| .400 | 2.262 | .01700 | .02040 | .01150 | .03960 | .00340 | .02810 | .00000 |
| .401 | 3.289 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | .00000 |
| .400 | 4.329 | .02550 | .02040 | .01150 | .02970 | .00510 | .01820 | .00000 |
| .400 | GRADIENT | .00057 | .00000 | .00180 | .00115 | -.00057 | -.00065 | .00000 |

RUN NO. 321/ 0 RN/L = 2.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|--------|--------|--------|---------|--------|--------|
| .594 | -3.991 | .02550 | .01020 | .00000 | .01980 | -.01530 | .01980 | .00000 |
| .594 | -2.909 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | .00000 |
| .595 | -1.859 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | .00000 |
| .599 | -1.336 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | .00000 |
| .601 | -.813 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | .00000 |
| .598 | -.290 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | .00000 |
| .600 | .234 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | .00000 |
| .558 | .741 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | .00000 |
| .599 | 1.247 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | .00000 |
| .600 | 1.747 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | .00000 |
| .594 | 2.263 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | .00000 |
| .600 | 3.294 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | .00000 |
| .600 | 4.337 | .02550 | .01020 | .01150 | .02970 | -.01530 | .01820 | .00000 |
| .600 | GRADIENT | -.00000 | .00000 | .00069 | .00153 | -.00000 | .00064 | .00000 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

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AMES 118-1-11 0A145A C1

(02F0F8) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

ALPHA = 18.700 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPOBRK = 25.000 RUDDER = .000
RN/L = 3.000

PARAMETRIC DATA

RUN NO. 319/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|--------|--------|--------|--------|---------|--------|---------|
| .799 | -4.008 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | .05190 |
| .797 | -2.926 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | .03110 |
| .797 | -1.876 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | .02080 |
| .798 | -1.351 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | .03110 |
| .800 | -.827 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00030 | .01040 |
| .799 | -.301 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | .00900 |
| .778 | .178 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.03060 |
| .799 | .734 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | .00000 |
| .799 | 1.248 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.01020 |
| .799 | 1.748 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.02040 |
| .799 | 2.266 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.02040 |
| .797 | 3.306 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.02040 |
| .799 | 4.350 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.04080 |
| GRADIENT | | .00000 | .00022 | .00000 | .00065 | .00022 | .00065 | -.01042 |

(02F0F9) (16 JUL 77)

REFERENCE DATA

| | | | | | | | | | | | | | |
|---------|-----------|--------|------|---|-----------|-----|----|--------|---|---------|--------|---|-------|
| ■ SREF | 2690.0000 | SO.FT. | XMRP | = | 1076.6800 | IN. | XO | ALPHA | = | 18.7000 | ELEVON | = | .0000 |
| ■ LREF | 474.8100 | INCHES | YMRP | = | .0000 | IN. | YO | AIRLON | = | .0000 | BOFLAP | = | .0000 |
| ■ BREF | 936.6800 | IN. | ZMRP | = | 375.0000 | IN. | ZO | SPOBRK | = | 25.0000 | RUDDER | = | .0000 |
| ■ SCALE | .0500 | | | | | | | RN/L | = | 5.0000 | | | |

PARAMETRIC DATA

| MACH | BETA | ELV-L0 | ELV-L1 | ELV-R0 | ELV-R1 | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|---------|---------|---------|---------|
| 397 | -3.976 | .02550 | .02040 | .02300 | .01980 | -.00510 | -.00320 | .05190 |
| 397 | -2.900 | .02550 | .02040 | .02300 | .01980 | -.00510 | -.00320 | .05190 |
| 397 | -1.854 | .02550 | .02040 | .02300 | .01980 | -.00510 | -.00320 | .04150 |
| 397 | -1.330 | .02550 | .02040 | .02300 | .01980 | -.00510 | -.00320 | .05190 |
| 397 | -.810 | .02550 | .02040 | .03450 | .01980 | -.00510 | -.01470 | .04150 |
| 397 | -.206 | .02550 | .02040 | .02300 | .01980 | -.00510 | -.00320 | .04150 |
| 397 | .225 | .02550 | .02040 | .02300 | .01980 | -.00510 | -.00320 | .04150 |
| 397 | .743 | .02550 | .02040 | .03450 | .01980 | -.00510 | -.01470 | .04150 |
| 397 | 1.254 | .02550 | .02040 | .03450 | .01980 | -.00510 | -.01470 | .04150 |
| 398 | 1.753 | .02550 | .02040 | .03450 | .01980 | -.00510 | -.01470 | .05190 |
| 398 | 2.270 | .02550 | .02040 | .03450 | .01980 | -.00510 | -.01470 | .04150 |
| 398 | 3.301 | .02550 | .02040 | .03450 | .01980 | -.00510 | -.01470 | .04150 |
| 397 | 4.340 | .02040 | .02000 | .02300 | .01980 | -.00510 | -.00320 | .03110 |
| | GRADIENT | .00000 | .00000 | .00120 | -.00000 | -.00000 | -.00120 | -.00170 |

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|--------|---------|--------|--------|---------|---------|---------|
| .599 | -4.020 | .01700 | .01020 | .03450 | .00000 | -.00680 | -.03450 | -.10070 |
| .600 | -2.972 | .00850 | .02040 | .03450 | .00000 | .01190 | -.03450 | -.10070 |
| .600 | -1.942 | .01700 | .01020 | .03450 | .00000 | -.00680 | -.03450 | -.10890 |
| .602 | -1.423 | .01700 | .01020 | .03450 | .00000 | .00680 | -.03450 | -.10890 |
| .601 | -.908 | .01700 | .01020 | .03450 | .00000 | -.00680 | -.03450 | -.10890 |
| .601 | -.387 | .02550 | .01020 | .03450 | .00000 | -.01530 | -.03450 | -.10070 |
| .600 | .118 | .01700 | .01020 | .03450 | .00000 | .00680 | -.03450 | -.11710 |
| .600 | .646 | .01700 | .01020 | .03450 | .00990 | -.00680 | .02460 | -.08430 |
| .601 | 1.166 | .02550 | .01020 | .03450 | .00000 | -.01530 | -.03450 | -.10070 |
| .601 | 1.672 | .01700 | .01020 | .03450 | .00000 | -.00680 | -.03450 | -.09250 |
| .601 | 2.193 | .01700 | .00000 | .03450 | .00000 | -.01700 | -.03450 | -.09250 |
| .601 | 3.232 | .01700 | .00000 | .03450 | .00990 | .01700 | .02460 | -.09250 |
| .601 | 4.269 | .01700 | .01020 | .03450 | .00990 | -.00680 | -.02460 | -.09250 |
| GRADIENT | | .00044 | -.00121 | .00000 | .00110 | -.00165 | -.00110 | -.00195 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(02F0F9) (16 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 18.700 ELEVON = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BOFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDBRK = 25.000 RUDDER = .000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 407/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|---------|---------|---------|
| .800 | -4.067 | .00000 | .00000 | .04590 | .01980 | .00000 | -.02610 | -.05960 |
| .798 | -3.011 | .00000 | .00000 | .04590 | .01980 | .00000 | -.02610 | -.07610 |
| .800 | -1.972 | .00000 | .00000 | .04590 | .01980 | .00000 | -.02610 | -.08430 |
| .800 | -1.450 | .00000 | .00000 | .04590 | .01980 | .00000 | -.02610 | -.09250 |
| .799 | -.929 | .00000 | .00000 | .04590 | .01980 | .00000 | -.02610 | -.09250 |
| .800 | -.400 | .00000 | .00000 | .04590 | .01980 | .00000 | -.02610 | -.07610 |
| .799 | .099 | .00000 | .00000 | .04590 | .01980 | .00000 | -.02610 | -.09250 |
| .799 | .639 | .01700 | .00000 | .04590 | .02970 | -.01700 | -.02610 | -.10070 |
| .799 | 1.161 | .01700 | .00000 | .04590 | .01980 | -.01700 | -.02610 | -.10890 |
| .801 | 1.669 | .01700 | .00000 | .04590 | .02970 | -.02550 | -.01620 | -.10890 |
| .799 | 2.197 | .02550 | .00000 | .04590 | .02970 | -.03400 | -.01620 | -.11710 |
| .800 | 3.246 | .03400 | .00000 | .04590 | .02970 | -.02550 | -.01620 | -.00587 |
| .799 | 4.294 | .02550 | .00000 | .00000 | .00146 | -.00451 | .00146 | |
| | GRADIENT | .00451 | .00000 | | | | | |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1589

AMES 118-1-11 CA145A 01

(02F000) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 18.700 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 9.000

| MACH | BETA | RUN NO. 335/ 0 RN/L = 6.97 | | | | | GRADIENT INTERVAL = -5.00/ 5.00 | | | | |
|------|----------|----------------------------|--------|--------|--------|---------|---------------------------------|---------|--|--|--|
| | | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL | | | |
| .597 | -4.024 | .03400 | .02040 | .03450 | .01980 | -.01360 | -.01470 | .43610 | | | |
| .597 | -2.985 | .02550 | .02040 | .03450 | .01980 | -.00510 | -.01470 | .07270 | | | |
| .597 | -1.943 | .02550 | .02040 | .03450 | .01980 | -.00510 | -.01470 | -.15290 | | | |
| .598 | -1.420 | .02550 | .02040 | .03450 | .01980 | -.00510 | -.01470 | .00000 | | | |
| .597 | -.899 | .02550 | .02040 | .03450 | .01980 | -.00510 | -.01470 | -.02040 | | | |
| .597 | -.373 | .02550 | .02040 | .03450 | .01980 | -.00510 | -.01470 | .00000 | | | |
| .596 | .164 | .03400 | .02040 | .03450 | .01980 | -.01360 | -.01470 | .16610 | | | |
| .597 | .675 | .02550 | .02040 | .03450 | .01980 | -.00510 | -.01470 | -.09170 | | | |
| .597 | 1.197 | .02550 | .02040 | .03450 | .01980 | -.00510 | -.01470 | -.11210 | | | |
| .597 | 1.709 | .02550 | .02040 | .03450 | .01980 | -.00510 | -.01470 | -.17330 | | | |
| .597 | 2.238 | .02550 | .02040 | .03450 | .01980 | -.00510 | -.01470 | -.09170 | | | |
| .598 | 3.284 | .02550 | .02040 | .03450 | .01980 | -.00510 | -.01470 | .00000 | | | |
| .597 | 4.331 | .02550 | .02040 | .03450 | .01980 | -.00510 | -.01470 | -.10190 | | | |
| .597 | GRADIENT | -.00050 | .00000 | .00000 | .00000 | .00050 | -.00000 | -.03887 | | | |

| MACH | BETA | RUN NO. 340/ 0 RN/L = 7.95 | | | | | GRADIENT INTERVAL = -5.00/ 5.00 | | | | |
|------|----------|----------------------------|---------|--------|--------|---------|---------------------------------|---------|--|--|--|
| | | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL | | | |
| .799 | -4.156 | .01700 | .03060 | .03450 | .01980 | .01360 | -.01470 | -.11210 | | | |
| .798 | -3.091 | .01700 | .02040 | .04590 | .01980 | .00340 | -.02610 | -.43820 | | | |
| .798 | -2.033 | .01700 | .02040 | .04590 | .01980 | .00340 | -.02610 | .04150 | | | |
| .799 | -1.500 | .01700 | .02040 | .04590 | .01980 | .00340 | -.02610 | .00000 | | | |
| .798 | -.963 | .01700 | .02040 | .04590 | .01980 | .00340 | -.02610 | -.09170 | | | |
| .799 | -.427 | .01700 | .02040 | .04590 | .01980 | .00340 | -.02610 | -.10190 | | | |
| .800 | .105 | .01700 | .02040 | .04590 | .01980 | .00340 | -.02610 | -.11210 | | | |
| .800 | .639 | .01700 | .02040 | .04590 | .01980 | .00340 | -.02610 | -.03060 | | | |
| .799 | 1.166 | .01700 | .02040 | .04590 | .01980 | .00340 | -.02610 | .00000 | | | |
| .799 | 1.688 | .01700 | .02040 | .04590 | .01980 | .00340 | -.02610 | .07270 | | | |
| .799 | 2.226 | .01700 | .02040 | .04590 | .01980 | .00340 | -.02610 | .23880 | | | |
| .799 | 3.297 | .01700 | .02040 | .05740 | .01980 | .00340 | -.03760 | -.12230 | | | |
| .798 | 4.361 | .01700 | .02040 | .05740 | .01980 | .00340 | -.03760 | .05190 | | | |
| .798 | GRADIENT | .00000 | -.00059 | .00182 | .00000 | -.00059 | -.00182 | .03224 | | | |

OAI45 TABULATED FORCE DATA
AHES 118-1-11 OAI45A 01

DATE 10 MAR 80

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDRK = 25.000 RUDDER = .000
RN/L = 3.000

| RUN NO. 858/ 0 | | RN/L = 3.00 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|--------|---------------------------------|--------|
| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI |
| .400 | -4.999 | .00850 | .02040 | .00000 | .02970 |
| .398 | -.037 | .00850 | .02040 | .00000 | .02970 |
| .398 | 2.518 | .00850 | .02040 | .00000 | .02970 |
| .398 | 5.160 | .00850 | .02040 | .00000 | .02970 |
| .399 | 8.197 | .00850 | .02040 | .00000 | .02970 |
| .399 | 10.211 | .00850 | .02040 | .00000 | .02970 |
| .399 | 12.195 | .00850 | .02040 | .00000 | .02970 |
| .399 | 15.219 | .00850 | .01020 | .00000 | .02970 |
| .399 | 17.204 | .01700 | .02040 | .01150 | .02970 |
| .397 | 19.242 | .00850 | .02040 | .00000 | .00990 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 |

| RUN NO. 859/ 0 | | RN/L = 3.00 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|--------|---------------------------------|--------|
| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI |
| .598 | -5.021 | .00000 | .02040 | .00000 | .00990 |
| .599 | -.038 | .00000 | .01020 | .00000 | .00000 |
| .598 | 2.516 | .00000 | .01020 | .00000 | .00000 |
| .596 | 5.140 | .00000 | .01020 | .00000 | .00000 |
| .595 | 8.196 | .00000 | .01020 | .00000 | .01980 |
| .595 | 10.185 | .00000 | .01020 | .00000 | .01980 |
| .595 | 12.238 | .01010 | .01020 | .00000 | .01980 |
| .595 | 15.222 | .00000 | .01020 | .00000 | .01980 |
| .597 | 17.248 | .00000 | .01020 | .00000 | .01980 |
| .597 | 19.166 | .00000 | .01020 | .00000 | .01980 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 |

| RUN NO. 860/ 0 | | RN/L = 2.98 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|--------|---------------------------------|--------|
| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI |
| .801 | -4.994 | .00000 | .01020 | .00000 | .01980 |
| .801 | -.047 | .00000 | .01020 | .00000 | .01980 |
| .800 | 2.516 | .01700 | .01020 | .00000 | .01980 |
| .797 | 5.146 | .01700 | .00000 | .00000 | .01980 |
| .796 | 8.222 | .01700 | .00000 | .00000 | .01980 |
| .796 | 10.255 | .01700 | .01020 | .01070 | .03050 |
| .799 | 12.248 | .01700 | .01020 | .00000 | .00680 |
| .799 | 15.268 | .01700 | .01020 | .00000 | .01980 |
| .796 | 17.242 | .01700 | .00000 | .00000 | .01980 |
| .796 | 19.174 | .01700 | .01020 | .00000 | .01980 |
| | GRADIENT | .00196 | .00000 | .00000 | .00000 |

C-8

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1591

(02F002) (18 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ELEVON = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO BOFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO RUDDER = .000
 SCALE = .0500

PARAMETRIC DATA

BETA = 2.000
 AILRON = .000
 SPDBRK = 25.000
 RN/L = 5.000

RUN NO. 863/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|--------|--------|--------|--------|---------|--------|---------|
| .397 | -5.006 | .00850 | .00000 | .01150 | .01980 | -.00850 | .00830 | -.10070 |
| .397 | -.026 | .00850 | .00000 | .01150 | .01980 | -.00850 | .00830 | -.12540 |
| .397 | 2.516 | .00850 | .00000 | .01150 | .01980 | -.00850 | .00830 | -.12540 |
| .396 | 5.151 | .00850 | .00000 | .01150 | .01980 | -.00850 | .00830 | -.10890 |
| .396 | 8.174 | .01700 | .00000 | .01150 | .01980 | -.01700 | .00830 | -.05960 |
| .395 | 10.233 | .01700 | .00000 | .01150 | .01980 | -.01700 | .00830 | -.05140 |
| .395 | 12.244 | .01700 | .00000 | .01150 | .01980 | -.01700 | .00830 | -.04320 |
| .397 | 15.264 | .01700 | .00000 | .01150 | .01980 | -.01700 | .00830 | -.01860 |
| .397 | 17.227 | .01700 | .00000 | .01150 | .01980 | -.01700 | .00830 | -.02680 |
| .397 | 19.164 | .01700 | .00000 | .01150 | .01980 | -.01700 | .00830 | -.02680 |
| GRADIENT | | .00000 | .00000 | .00000 | .00000 | -.00000 | .00000 | -.00000 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ELEVON = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO BOFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO RUDDER = .000
 SCALE = .0500

PARAMETRIC DATA

BETA = 2.000
 AILRON = .000
 SPDBRK = 25.000
 RN/L = 6.900

AMES 118-1-11 OAI45A 01

(02F003) (18 JUL 77)

RUN NO. 862/ 0 RN/L = 6.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|--------|---------|---------|---------|---------|---------|
| .596 | -5.066 | .01700 | .00000 | .02300 | .01980 | -.01700 | -.00320 | -.07610 |
| .597 | -.030 | .01700 | .00000 | .01150 | .01980 | -.01700 | .00830 | -.04320 |
| .597 | 2.526 | .01700 | .00000 | .01150 | .01980 | -.01700 | .00830 | -.05140 |
| .596 | 5.151 | .01700 | .00000 | .01150 | .01980 | -.01700 | .00830 | -.02680 |
| .598 | 8.286 | .01700 | .00000 | .02300 | .01980 | -.01700 | .00320 | -.01040 |
| .597 | 10.341 | .01700 | .00000 | .01150 | .01980 | -.01700 | .00830 | -.01860 |
| .597 | 12.347 | .01700 | .00000 | .01150 | .01980 | -.01700 | .00830 | -.00210 |
| .596 | 15.384 | .01700 | .00000 | .01150 | .01980 | -.01700 | .00830 | -.00210 |
| .596 | 17.323 | .01700 | .00000 | .02300 | .01980 | -.01700 | -.00320 | -.00210 |
| .596 | 19.267 | .01700 | .00000 | .02300 | .01980 | -.01700 | -.00320 | -.00610 |
| GRADIENT | | -.00000 | .00000 | -.00000 | -.00000 | -.00000 | .00000 | -.00321 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

(D2F004) (16 JUL 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO BETA = 2.000 ELEVON = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BDFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPOBRK = 25.000 RUDDER = .000
 SCALE = .0500 RN/L = 7.900

RUN NO. 861/ 0 RN/L = 7.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|--------|--------|--------|---------|---------|---------|
| .797 | -5.094 | .02550 | .01020 | .02300 | .01980 | -.01530 | -.00320 | -.11710 |
| .799 | -.042 | .02550 | .01020 | .02300 | .01980 | -.01530 | -.00320 | -.01860 |
| .798 | 2.537 | .01700 | .01020 | .02300 | .01980 | -.00680 | -.00320 | -.00210 |
| .799 | 5.147 | .01700 | .01020 | .02300 | .01980 | -.00680 | -.00320 | .01430 |
| .797 | 8.350 | .01700 | .01020 | .02300 | .01980 | -.00680 | -.00320 | -.15000 |
| .800 | 10.392 | .01700 | .01020 | .02300 | .01980 | -.00680 | -.00320 | -.14180 |
| .797 | 12.410 | .01700 | .00000 | .02300 | .01980 | -.01700 | -.00320 | -.13360 |
| .798 | 15.416 | .01700 | .00000 | .02300 | .01980 | -.01700 | -.00320 | -.21560 |
| .799 | 17.406 | .01700 | .00000 | .02300 | .02970 | -.01700 | .00670 | -.31390 |
| .799 | 19.369 | .01700 | .00000 | .02300 | .01980 | -.01700 | -.00320 | -.40130 |
| | GRADIENT | -.00330 | .00000 | .00000 | .00000 | .00330 | -.00000 | .00640 |

AMES 118-1-11 0A145A 01(-MPS NOZ)

(D2F005) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO BETA = .000 ELEVON = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BDFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPOBRK = 25.000 RUDDER = .000
 SCALE = .0500 RN/L = 5.000

RUN NO. 918/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|---------|---------|---------|---------|
| .597 | -5.206 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -.15000 |
| .597 | -.218 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -.16090 |
| .598 | 2.326 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -.16090 |
| .598 | 4.802 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -.16090 |
| .597 | 7.882 | .00850 | .01020 | .00000 | .03960 | .00170 | .03960 | -.15000 |
| .598 | 9.946 | .00850 | .01020 | .00000 | .03960 | .00170 | .03960 | -.15000 |
| .598 | 11.972 | .00850 | .01020 | .00000 | .03960 | .00170 | .03960 | -.15000 |
| .598 | 15.007 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -.15000 |
| .597 | 16.975 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -.15000 |
| .598 | 18.950 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -.15000 |
| | GRADIENT | .00000 | .00000 | .00000 | -.00000 | .00000 | -.00000 | .00000 |

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OAI145 TABULATED FORCE DATA

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AMES 118-1-11 OAI145A 01(-MPS NOZ)

(02F0G5) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. X0
YMRP = .0000 IN. Y0
ZMRP = 375.0000 IN. Z0

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDRK = 25.000 RUDDER = .000
RN/L = 5.000

PARAMETRIC DATA

RUN NO. 915/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|--------|---------|--------|---------|--------|---------|
| .902 | -5.238 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.13360 |
| .901 | -2.228 | .01700 | .01020 | .01150 | .03960 | -.00680 | .02810 | -.13360 |
| .900 | 2.357 | .01700 | .01020 | .01150 | .03960 | -.00680 | .02810 | -.13360 |
| .898 | 4.858 | .01700 | .02040 | .01150 | .03960 | .00340 | .02810 | -.12540 |
| .903 | 7.965 | .01700 | .01020 | .01150 | .03960 | -.00680 | .02810 | -.12540 |
| .899 | 9.992 | .01700 | .01020 | .01150 | .03960 | -.00680 | .02810 | -.11710 |
| .902 | 12.027 | .02550 | .02040 | .01150 | .03960 | -.00510 | .02810 | -.11710 |
| .902 | 15.072 | .02550 | .02040 | .01150 | .03960 | -.00510 | .02810 | -.12540 |
| .901 | 17.065 | .03400 | .02040 | .01150 | .03960 | -.01360 | .02810 | -.10070 |
| .900 | 18.999 | .04250 | .01020 | .01150 | .03960 | -.03230 | .02810 | -.03500 |
| | GRADIENT | -.00000 | .00199 | -.00000 | .00000 | .00199 | .00000 | .00160 |

RUN NO. 914/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|--------|---------|--------|---------|
| 1.199 | -5.247 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | -.15000 |
| 1.199 | -2.217 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.15000 |
| 1.201 | 2.366 | .00850 | .01020 | .01150 | .02970 | -.00170 | .01820 | -.15000 |
| 1.200 | 4.911 | .01700 | .01020 | .01150 | .02970 | .00620 | .01820 | -.15000 |
| 1.198 | 7.997 | .02550 | .01020 | .00000 | .02970 | -.01530 | .02970 | -.14180 |
| 1.199 | 10.040 | .03400 | .01020 | .01150 | .02970 | -.02380 | .01820 | -.14180 |
| 1.200 | 12.069 | .03400 | .01020 | .00000 | .02970 | -.02380 | .02970 | -.13360 |
| 1.200 | 15.077 | .03400 | .01020 | .01150 | .02970 | -.02380 | .01820 | -.13360 |
| 1.199 | 17.062 | .02550 | .01020 | .00000 | .02970 | -.01530 | .01820 | -.13360 |
| 1.199 | 19.033 | .03400 | .01020 | .00000 | .03960 | -.02380 | .03960 | -.14180 |
| 1.197 | GRADIENT | .00165 | .00000 | .00000 | .00000 | -.00165 | .00000 | -.00000 |

RUN NO. 911/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|---------|---------|---------|---------|
| 1.405 | -5.238 | .00850 | .02040 | .00000 | .00990 | .01190 | -.00160 | -.15000 |
| 1.405 | -2.330 | .00850 | .01020 | .00000 | .00990 | .00170 | .00330 | -.15000 |
| 1.402 | 2.329 | .01700 | .01020 | .01150 | .00000 | -.00680 | -.01150 | -.15000 |
| 1.400 | 4.884 | .01700 | .02040 | .00000 | .00000 | .00340 | .00000 | -.15000 |
| 1.401 | 7.961 | .01700 | .02040 | .00000 | .00000 | .00340 | .00000 | -.15000 |
| 1.401 | 10.007 | .02550 | .02040 | .00000 | .01980 | -.00510 | .01980 | -.15000 |
| 1.402 | 12.032 | .02550 | .02040 | .00000 | .01980 | -.00510 | .01980 | -.15000 |
| 1.403 | 15.032 | .01700 | .02040 | .01150 | .01980 | .00340 | .00830 | -.15000 |
| 1.390 | 17.035 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.15000 |
| 1.382 | 19.035 | .02550 | .01020 | .01150 | .01980 | -.01530 | .00830 | -.15000 |
| | GRADIENT | .00166 | .00199 | .00000 | -.00194 | .00033 | -.00194 | .00000 |

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0A145 TABULATED FORCE DATA

ANES 118-1-11 0A145A 01(-MPS NOZ)

(D2F006) (18 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
AILRON = .000 BOFLAP = .000
SPDRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 917/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|--------|--------|--------|---------|--------|---------|
| .597 | -6.056 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -.16090 |
| .598 | -1.938 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -.18280 |
| .598 | -.899 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -.18280 |
| .598 | .086 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -.18280 |
| .598 | .633 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -.16090 |
| .597 | 1.116 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -.16090 |
| .598 | 2.173 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -.16090 |
| .597 | 3.200 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -.17190 |
| .598 | 4.238 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -.17190 |
| .598 | 6.299 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -.18280 |
| | GRADIENT | -.00000 | .00000 | .00000 | .00000 | -.00000 | .00000 | .00244 |

RUN NO. 916/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|---------|--------|---------|
| .903 | -6.113 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -.15000 |
| .901 | -1.984 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -.18280 |
| .900 | -.946 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -.20460 |
| .901 | .097 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -.23740 |
| .899 | .644 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -.14180 |
| .901 | 1.151 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -.13360 |
| .900 | 2.204 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -.15000 |
| .899 | 3.245 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -.15000 |
| .899 | 4.287 | .01700 | .01020 | .00000 | .03960 | -.00680 | .03960 | -.15000 |
| .896 | 6.361 | .01700 | .01020 | .01150 | .03960 | -.00680 | .02810 | -.17190 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | -.00000 | .00000 | .00957 |

RUN NO. 913/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|--------|---------|--------|--------|---------|---------|---------|---------|
| 1.200 | -6.187 | .02550 | .01020 | .01150 | -.04040 | -.01530 | -.05190 | -.15000 |
| 1.200 | -2.072 | .03400 | .01020 | .01150 | -.04040 | -.02380 | -.05190 | -.15000 |
| 1.198 | -1.023 | .02550 | .01020 | .01150 | -.04040 | -.01530 | -.05190 | -.15000 |
| 1.200 | .029 | .02550 | .01020 | .01150 | -.04040 | -.01530 | -.05190 | -.15000 |
| 1.201 | .547 | .01700 | .01020 | .01150 | -.05050 | -.00680 | -.06200 | -.15000 |
| 1.200 | 1.074 | .01700 | .01020 | .01150 | -.05050 | -.00680 | -.06200 | -.15000 |
| 1.200 | 2.117 | .01700 | .01020 | .01150 | -.04040 | -.00680 | -.05190 | -.15000 |
| 1.199 | 3.157 | .01700 | .01020 | .01150 | -.04040 | -.00680 | -.05190 | -.16090 |
| 1.199 | 4.201 | .01700 | .01020 | .01150 | -.04040 | -.00680 | -.05190 | -.16090 |
| 1.199 | 6.303 | .01700 | .01020 | .01150 | -.04040 | -.00680 | -.05190 | -.17190 |
| 1.195 | | -.00252 | .00000 | .00000 | .00013 | .00252 | .00013 | -.00189 |

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0A148 TABULATED FORCE DATA

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AMES 118-1-11 0A145A 01 (-MPS NOZ)

(02F006) (16 JUL 77)

REFERENCE DATA

| | | | | | | | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|--------|--------|---|--------|--------|---|------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. X0 | ALPHA | = | 5.000 | ELEVON | = | .000 |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. Y0 | AIRBRN | = | .000 | BOFLAP | = | .000 |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. Z0 | SPDRBK | = | 25.000 | RUDDER | = | .000 |
| SCALE | = | .0500 | | | | | | RN/L | = | 5.000 | | | |

PARAMETRIC DATA

RUN NO. 912/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRPL |
|----------|---------|---------|---------|--------|--------|---------|---------|---------|
| 1.401 | -6.253 | .01700 | .01020 | .00000 | .01980 | -.00680 | .01980 | -.15000 |
| 1.405 | -2.093 | .02550 | .01020 | .00000 | .01980 | -.01530 | .01980 | -.15000 |
| 1.404 | -1.035 | .01700 | .02040 | .00000 | .01980 | .00340 | .01980 | -.15000 |
| 1.404 | -.012 | .01700 | .02040 | .00000 | .01980 | .00340 | .00830 | -.15000 |
| 1.404 | .534 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.15000 |
| 1.403 | 1.077 | .02550 | .01020 | .00000 | .01980 | -.01530 | .01980 | -.15000 |
| 1.403 | 2.134 | .01700 | .01020 | .00000 | .01980 | -.00680 | .01980 | -.16090 |
| 1.403 | 3.179 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | -.16090 |
| 1.403 | 4.228 | .01700 | .01020 | .00000 | .01980 | -.00680 | .01980 | -.17190 |
| 1.403 | 6.341 | .01700 | .01020 | .00000 | .01980 | -.00680 | .01980 | -.18280 |
| GRADIENT | -.00082 | -.00082 | -.00099 | .00025 | .00000 | -.00017 | -.00025 | -.00340 |

AMES 118-1-11 0A145A 01

(02F007) (01 SEP 77)

REFERENCE DATA

| | | | | | | | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|--------|--------|---|-------|--------|---|--------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. XO | ALPHA | = | 5.000 | BETA | = | .000 |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. YO | ELEVON | = | .000 | AIRON | = | .000 |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. ZO | BOFLAP | = | .000 | SPDBRK | = | 25.000 |
| SCALE | = | .0500 | | | | | | RUDDER | = | .000 | RN/L | = | 5.000 |

PARAMETRIC DATA

| | | | |
|---------|--------|-------------|---------------------------------|
| RUN NO. | 356/ 0 | RN/L = 4.91 | GRADIENT INTERVAL = -5.00/ 5.00 |
|---------|--------|-------------|---------------------------------|

[illegible]

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

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(02F007) (01 SEP 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 AILRON = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO BOFLAP = .000 SPOBRK = 25.000
 SCALE = .0500 RUDDER = .000 RN/L = 5.000

RUN NO. 367/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | Z | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL | AIL-IB | AIL-OB |
|-------|----------|--------|--------|--------|--------|---------|---------|--------|---------|---------|
| 1.199 | -40.000 | .00850 | .01020 | .00000 | .01980 | .00170 | .01980 | .00000 | -.00480 | .00430 |
| 1.206 | -20.000 | .01700 | .02040 | .01150 | .01980 | .00340 | .00830 | .00000 | .00030 | .00280 |
| 1.200 | -10.000 | .01700 | .01020 | .02300 | .01980 | -.00680 | -.00320 | .00000 | -.00480 | -.00300 |
| 1.204 | .000 | .01700 | .01020 | .01150 | .01980 | -.00680 | .00830 | .00000 | -.00480 | .00280 |
| 1.197 | 20.000 | .01700 | .01020 | .01150 | .02970 | -.00680 | .01820 | .00000 | -.00980 | .00280 |
| 1.199 | 40.000 | .01700 | .02040 | .02300 | .02970 | .00340 | .00670 | .00000 | -.00470 | -.00300 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 |

AMES 118-1-11 0A145A 01

(02F008) (01 SEP 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 AILRON = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO BOFLAP = .000 SPOBRK = .000
 SCALE = .0500 RUDDER = .000 RN/L = 5.000

RUN NO. 886/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | Z | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL | AIL-IB | AIL-OB |
|------|----------|--------|--------|--------|--------|---------|--------|---------|---------|---------|
| .951 | -40.000 | .00850 | .02040 | .01150 | .02970 | .01190 | .01820 | -.13360 | -.00470 | -.00150 |
| .951 | -30.000 | .00850 | .02040 | .01150 | .02970 | .01190 | .01820 | -.11710 | -.00470 | -.00150 |
| .953 | -20.000 | .00850 | .02040 | .01150 | .02970 | .01190 | .01820 | -.12540 | -.00470 | -.00150 |
| .952 | -10.000 | .00850 | .02040 | .01150 | .02970 | .01190 | .01820 | -.11710 | -.00470 | -.00150 |
| .952 | -5.000 | .00850 | .02040 | .01150 | .02970 | .01190 | .01820 | -.11710 | -.00470 | -.00150 |
| .952 | .000 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.11710 | -.00470 | .00270 |
| .951 | 5.000 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.11710 | -.00470 | .00270 |
| .953 | 10.000 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.12540 | -.00470 | .00270 |
| .952 | 20.000 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.11710 | -.00470 | .00270 |
| .951 | 30.000 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.12540 | -.00470 | .00270 |
| .948 | 40.000 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.12540 | -.00470 | .00270 |
| | GRADIENT | .00085 | .00000 | .00000 | .00000 | -.00085 | .00000 | .00000 | .00000 | .00042 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

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AMES 118-1-11 0A145A 01

(D2F008) (01 SEP 77)

REFERENCE DATA

| | | | | | | | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|--------|--------|---|-------|---------|---|-------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. XO | ALPHA | = | 5.000 | BETA | = | .000 |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. YO | ELEVON | = | .000 | ATLIRON | = | .000 |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. ZO | BDFLAP | = | .000 | SPDBRK | = | .000 |
| SCALE | = | .0500 | | | | | | RUDDER | = | .000 | RN/L | = | 5.000 |

PARAMETRIC DATA

| | | | | | | | |
|---------|--------|--------|------|----------|------------|--------|------|
| RUN NO. | 897/ 0 | RN/L = | 5.00 | GRADIENT | INTERVAL = | -5.00/ | 5.00 |
|---------|--------|--------|------|----------|------------|--------|------|

[illegible]

| | | | |
|---------|--------|-------------|---------------------------------|
| RUN NO. | 889/ 0 | RN/L = 4.99 | GRADIENT INTERVAL = -5.00/ 5.00 |
|---------|--------|-------------|---------------------------------|

[illegible]

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RUN NO.      894 / 0      RN/L = 5.01      GRADIENT INTERVAL = -5.00/ 5.00

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[illegible]

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

(02F008) (01 SEP 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 AILRON = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO RUDDER = .000 SPDBRK = .000
 SCALE = .0500

PARAMETRIC DATA

RUN NO. 895/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | Z | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL | AIL-IB | AIL-OB |
|-------|----------|--------|--------|--------|--------|---------|--------|---------|--------|--------|
| 1.400 | -40.000 | .0250 | .0240 | .01150 | .01980 | -.00510 | .00830 | -.12540 | .00030 | .00700 |
| 1.405 | -30.000 | .02550 | .0240 | .01150 | .01980 | -.00510 | .00830 | -.12540 | .00030 | .00700 |
| 1.409 | -20.000 | .02550 | .0240 | .01150 | .01980 | -.00510 | .00830 | -.12540 | .00030 | .00700 |
| 1.407 | -10.000 | .02550 | .0240 | .01150 | .01980 | -.00510 | .00830 | -.13360 | .00030 | .00700 |
| 1.407 | .000 | .02550 | .0240 | .01150 | .01980 | -.00510 | .00830 | -.13360 | .00030 | .00700 |
| 1.404 | 10.000 | .02550 | .0240 | .01150 | .01980 | -.00510 | .00830 | -.13360 | .00030 | .00700 |
| 1.401 | 20.000 | .02550 | .0240 | .01150 | .01980 | -.00510 | .00830 | -.13360 | .00030 | .00700 |
| 1.398 | 30.000 | .02550 | .0240 | .01150 | .01980 | -.00510 | .00830 | -.13360 | .00030 | .00700 |
| 1.399 | 35.000 | .01700 | .0240 | .01150 | .01980 | -.00340 | .00830 | -.13360 | .00030 | .00270 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 |

(02F009) (16 JUL 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = -20.000 BETA = 5.000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO AILRON = .000 BDFLAP = .000
 SCALE = .0500

PARAMETRIC DATA

RUN NO. 892/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | Z | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL | AIL-IB | AIL-OB |
|-------|----------|--------|--------|--------|--------|--------|--------|-----------|--------|--------|
| 1.199 | -10.771 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -13.04900 | .00030 | .00700 |
| 1.201 | -4.954 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -6.02820 | .00030 | .00700 |
| 1.201 | -2.442 | .02550 | .03060 | .01150 | .02970 | .00510 | .01820 | -2.97460 | .00030 | .00700 |
| 1.199 | -.123 | .02550 | .03060 | .01150 | .02970 | .00510 | .01820 | -1.15000 | .00030 | .00700 |
| 1.201 | 2.496 | .02550 | .03060 | .01150 | .02970 | .00510 | .01820 | 3.04020 | .00030 | .00700 |
| 1.200 | 5.005 | .02550 | .03060 | .01150 | .02970 | .00510 | .01820 | 6.09000 | .00030 | .00700 |
| 1.200 | 10.027 | .02550 | .03060 | .01150 | .02970 | .00510 | .01820 | 12.15600 | .00030 | .00700 |
| | GRADIENT | .00103 | .00124 | .00000 | .00000 | .00021 | .00000 | 1.21727 | .00000 | .00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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(D2F0H0) (16 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

RUN NO. 890/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|---------|---------|--------|---------|---------|-----------|
| 1.201 | .01700 | .03060 | .01150 | .02970 | .01360 | .01820 | -13.04900 |
| 1.201 | .01700 | .03060 | .01150 | .02970 | .01360 | .01820 | -6.02820 |
| 1.201 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -2.99440 |
| 1.201 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.14180 |
| 1.201 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | 3.06120 |
| GRADIENT | -.00000 | -.00123 | -.00000 | .00000 | -.00123 | -.00000 | 1.21728 |

AMES 118-1-11 OAI45A 01

(D2F0H1) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

RUN NO. 893/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|---------|---------|--------|---------|---------|---------|-----------|
| 1.199 | .02550 | .02040 | .01150 | .02970 | -.00510 | .01820 | -13.03800 |
| 1.201 | .02550 | .02040 | .01150 | .02970 | -.00510 | .01820 | -6.02820 |
| 1.200 | .02550 | .02040 | .01150 | .02970 | -.00510 | .01820 | -2.98450 |
| 1.201 | .02550 | .02040 | .01150 | .02970 | -.00510 | .01820 | -.14180 |
| 1.201 | .02550 | .02040 | .01150 | .02970 | -.00510 | .01820 | 3.04020 |
| 1.201 | .02550 | .02040 | .01150 | .02970 | -.00510 | .01820 | 6.11260 |
| 1.201 | .02550 | .02040 | .01150 | .02970 | -.00510 | .01820 | 12.12800 |
| GRADIENT | -.00000 | -.00000 | .00000 | -.00000 | .00000 | -.00000 | 1.21727 |

PARAMETRIC DATA

Z = 35.000 ALPHA = 5.000
BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDRK = .000 RN/L = 5.000

PARAMETRIC DATA

Z = -40.000 ALPHA = 5.000
BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDRK = .000 RN/L = 5.000

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

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AMES 118-1-11 0A145A 01

(D2F0H2) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

Z = .000 ALPHA = 5.000
BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = .000 RN/L = 5.000

RUN NO. 891/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|---------|--------|---------|---------|-----------|
| 1.201 | -10.754 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -13.02830 |
| 1.201 | -4.939 | .01700 | .03060 | .01150 | .02970 | .01360 | .01820 | -6.01000 |
| 1.200 | -2.442 | .01700 | .03060 | .01150 | .02970 | .01360 | .01820 | -2.97460 |
| 1.200 | -1.103 | .01700 | .03060 | .01150 | .02970 | .01360 | .01820 | -1.12540 |
| 1.201 | 2.505 | .01700 | .03060 | .01150 | .02970 | .01360 | .01820 | 3.05070 |
| 1.201 | 5.024 | .01700 | .03060 | .01150 | .02970 | .01360 | .01820 | 5.11260 |
| 1.201 | 10.003 | .01700 | .03060 | .01150 | .02970 | .01360 | .01820 | 12.12800 |
| | GRADIENT | .00000 | .00000 | -.00000 | .00000 | -.00000 | -.00000 | 1.21728 |

AMES 118-1-11 0A145A 01

(D2F0H3) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 170/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|
| 1.199 | -9.867 | -.06060 | -.03420 | -.03000 | -.02020 | .02640 | .00980 | -.02040 |
| 1.201 | -4.1847 | -.07070 | -.03420 | -.02080 | -.02020 | .03650 | -.00020 | -.01020 |
| 1.202 | .111 | -.04060 | -.04550 | -.03000 | -.02020 | .01510 | .00980 | .00000 |
| 1.199 | 2.872 | -.07070 | -.04550 | -.03000 | -.02020 | .02520 | .00980 | .00000 |
| 1.196 | 5.543 | -.07070 | -.04550 | -.03000 | -.02020 | .02520 | -.00020 | .01040 |
| 1.200 | 6.850 | -.04060 | -.04550 | -.03000 | -.02020 | .01510 | -.00020 | .03110 |
| 1.195 | 7.539 | -.07070 | -.04550 | -.03000 | -.02020 | .02520 | .00980 | .04150 |
| 1.198 | 8.549 | -.08080 | -.04550 | -.03000 | -.02020 | .03530 | .00980 | .04150 |
| 1.200 | 9.310 | -.07070 | -.04550 | -.03000 | -.02020 | .02520 | .00980 | .04150 |
| 1.196 | 10.599 | -.06060 | -.04550 | -.03000 | -.02020 | .01510 | .00980 | .10380 |
| 1.199 | 11.412 | -.07070 | -.04550 | -.03000 | -.02020 | .02520 | .01980 | .13500 |
| 1.197 | 12.609 | -.07070 | -.04550 | -.03000 | -.02020 | .02520 | .00980 | .16610 |
| 1.199 | 13.652 | -.07070 | -.04550 | -.03000 | -.02020 | .02520 | .00980 | .19730 |
| 1.199 | 15.909 | -.07070 | -.04550 | -.03000 | -.02020 | .02520 | .00980 | .19730 |
| 1.195 | 20.695 | -.08080 | -.04550 | -.02000 | -.02020 | .03530 | -.00020 | .32190 |
| | GRADIENT | .00026 | -.00156 | -.00138 | .00000 | -.00182 | .00138 | .00141 |

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0A145 TABULATED FORCE DATA

PAGE 1601

(02F0H3) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = 2.000 ELEVCM = .000
AIIIRON = .000 BOFLAP = .000
SPDBRK = 25.000 PUDDER = .000
RN/L = 5.000

RUN NO. 142/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|
| 1.294 | -5.619 | -.09090 | -.04550 | -.01000 | -.02020 | .04540 | -.01020 | -.01020 |
| 1.296 | -.195 | -.09090 | -.04550 | -.01000 | -.02020 | .04540 | -.01020 | -.02040 |
| 1.317 | .487 | -.10100 | -.03420 | .00000 | -.01010 | .06690 | -.01010 | -.01020 |
| 1.297 | 1.610 | -.09090 | -.04550 | -.01000 | -.01010 | .04540 | .00010 | -.01020 |
| 1.294 | 2.328 | -.09090 | -.04550 | -.01000 | -.02020 | .04540 | -.01020 | -.01020 |
| 1.294 | 5.097 | -.09090 | -.04550 | -.01000 | -.02020 | .04540 | -.01020 | -.01020 |
| 1.294 | 6.165 | -.19190 | -.04550 | -.01000 | -.01010 | .14640 | -.00010 | -.01020 |
| 1.294 | 7.179 | -.08080 | -.04550 | -.01000 | -.02020 | .03530 | -.01020 | -.01020 |
| 1.294 | 8.177 | -.08080 | -.04550 | -.01000 | -.02020 | .03530 | -.01020 | -.01020 |
| 1.293 | -9.114 | -.09090 | -.04550 | -.02000 | -.01010 | .04540 | .00990 | -.01020 |
| 1.292 | 10.252 | -.09090 | -.04550 | -.01000 | -.02020 | .04540 | -.01020 | -.01020 |
| 1.291 | 11.216 | -.09090 | -.04550 | -.01000 | -.01010 | .04540 | -.00010 | -.01020 |
| 1.293 | 12.279 | -.09090 | -.04550 | -.01000 | -.01010 | .04540 | .00010 | .00000 |
| 1.292 | 13.243 | -.10100 | -.04550 | .00000 | -.01010 | .05550 | -.01010 | .00000 |
| 1.294 | 15.286 | -.09090 | -.04550 | -.01000 | -.01010 | .04540 | -.00010 | -.01020 |
| 1.286 | 20.231 | -.10100 | -.04550 | .00000 | -.01010 | .05550 | -.01010 | -.01020 |
| | GRADIENT | .00151 | -.00169 | -.00150 | -.00005 | -.00322 | .00145 | .00335 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1602

AMES 118-1-11 OAI45A 01

(DSFOH4) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BOFLAP = .000
SPOBRK = 25.000 RUDDER = .000
RN/L = 5.000

| RUN NO. 418/ 0 | | RN/L = 4.93 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|--------|---------------------------------|--------|
| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI |
| .597 | -4.953 | .00850 | .01020 | .04590 | .03960 |
| .599 | .073 | .00000 | .01020 | .04590 | .03960 |
| .597 | 2.630 | .00850 | .01020 | .04590 | .03960 |
| .596 | 5.127 | .00850 | .01020 | .04590 | .03960 |
| .595 | 7.186 | .00850 | .01020 | .04590 | .03960 |
| .597 | 8.238 | .00000 | .01020 | .04590 | .03960 |
| .596 | 10.283 | .00850 | .01020 | .04590 | .03960 |
| .595 | 12.322 | .00850 | .01020 | .04590 | .03960 |
| .595 | 15.369 | .00850 | .00000 | .04590 | .03960 |
| | GRADIENT | -.00024 | .00000 | .00000 | .00000 |

DELX
-.12540
-.12540
-.12540
-.12540
-.12540
-.12540
-.12540
-.12540
-.12540
-.12540
-.00000

DELR
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-.00630
-.00630
-.00630
-.00630
-.00630
-.00630
-.00630
-.00630
-.00630
-.00000

DELL
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.01020
.00170
.00170
.00170
.01020
.00170
.00170
.00170
-.00850
.00024

RUN NO. 98/ 0 RN/L = 4.88 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI |
|------|----------|---------|---------|---------|---------|
| .900 | -5.029 | -.09090 | -.02280 | .00000 | -.02020 |
| .904 | .202 | -.09090 | -.02280 | .00000 | -.02020 |
| .898 | 2.827 | -.09090 | -.02280 | .00000 | -.02020 |
| .896 | 5.342 | -.09090 | -.02280 | .00000 | -.01010 |
| .899 | 6.429 | -.09090 | -.02280 | .00000 | -.01010 |
| .900 | 7.426 | -.09090 | -.02280 | -.01000 | -.01010 |
| .898 | 8.405 | -.09090 | -.01140 | .00000 | -.01010 |
| .899 | 9.519 | -.10100 | -.01140 | .00000 | -.02020 |
| .898 | 10.498 | -.10100 | -.01140 | .00000 | -.02020 |
| .899 | 11.554 | -.10100 | -.01140 | .00000 | -.02020 |
| .900 | 12.691 | -.10100 | .00000 | .00000 | -.02020 |
| .898 | 13.621 | -.10100 | -.01140 | .00000 | -.01010 |
| .897 | 15.707 | -.11110 | -.02280 | .00000 | -.01010 |
| .900 | 20.567 | -.10100 | -.01140 | .00000 | -.01010 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 |

DRHL
.00000
.00000
.00000
.00000
.00000
.00000
.00000
.00000
.00000
.00000
.00000

DELR
-.02020
-.02020
-.02020
-.01010
-.01010
-.00010
-.01010
-.02020
-.02020
-.02020
.00000

DELL
.06810
.06010
.06810
.06810
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.07950
.08960
.08960
.08960
.10100
.08960
.00000

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1603

(02F0H5) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 99/ 0 RN/L = 4.88 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|---------|---------|--------|---------|--------|---------|---------|
| .897 | -5.439 | -1.1110 | -1.0280 | .00000 | -.01010 | .08630 | -.01010 | -.01020 |
| .903 | -.038 | -1.1110 | -1.0140 | .00000 | -.01010 | .09970 | -.01010 | -.02040 |
| .899 | 2.334 | -1.1220 | -1.0140 | .00000 | -.01010 | .10980 | -.01010 | -.03060 |
| .897 | 5.055 | -1.0100 | .00000 | .00000 | -.01010 | .10100 | -.01010 | -.01020 |
| .898 | 7.246 | -1.0100 | .00000 | .00000 | -.01010 | .10100 | -.01010 | -.01020 |
| .900 | 8.182 | -1.0100 | -1.0140 | .00000 | -.01010 | .08960 | -.01010 | .00000 |
| .899 | 10.292 | -1.1110 | -1.0140 | .00000 | .00000 | .09970 | .00000 | .00000 |
| .896 | 12.304 | -1.1110 | -1.0140 | .00000 | .00000 | .09970 | .00000 | -.01020 |
| .897 | 15.440 | -1.1110 | -1.0140 | .00000 | .00000 | .09970 | .00000 | -.01020 |
| .899 | 20.472 | -1.1110 | -1.0140 | .00000 | .00000 | .09970 | .00000 | -.01020 |
| GRADIENT | | -.00426 | .00000 | .00000 | .00000 | .00426 | .00000 | -.00430 |

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

AMES 118-1-11 OAI45A 01

(02F0H6) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 93/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|----------|----------|---------|---------|---------|---------|---------|
| .901 | -4.644 | 10.16900 | 10.09600 | 9.87060 | 9.93960 | -.07310 | .06900 | -.03060 |
| .901 | .235 | 10.18200 | 10.08800 | 9.87940 | 9.93960 | -.09400 | .06020 | -.03060 |
| .900 | 2.732 | 10.18200 | 10.10400 | 9.87940 | 9.93960 | -.07870 | .06020 | -.03060 |
| .898 | 5.300 | 10.18200 | 10.10400 | 9.87940 | 9.93960 | -.07870 | .06020 | -.03060 |
| .901 | 8.373 | 10.18200 | 10.09600 | 9.87060 | 9.94090 | -.08540 | .07830 | -.03060 |
| .900 | 10.412 | 10.18200 | 10.09600 | 9.87940 | 9.93960 | -.08400 | .06020 | -.03060 |
| .899 | 12.492 | 10.18200 | 10.08800 | 9.87060 | 9.93960 | -.09400 | .06900 | -.06110 |
| .899 | 15.578 | 10.16900 | 10.09600 | 9.87060 | 9.93960 | -.07310 | .06900 | -.04080 |
| .897 | 20.528 | 10.16900 | 10.09600 | 9.87940 | 9.93960 | -.07310 | .06020 | -.06110 |
| GRADIENT | | .00189 | .00071 | .00128 | .00000 | -.00124 | -.00128 | .00000 |

PARAMETRIC DATA

BETA = .000 ELEVON = 10.000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

(D2F0H7) (16 JUL 77)

REFERENCE DATA

| | | | | | | | |
|-------|---|-----------|---------|------|---|-----------|--------|
| SREF | = | 2690.0000 | SO. FT. | YMRP | = | 1076.6800 | IN. ZO |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. ZO |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. ZO |
| SCALE | = | .0500 | | | | | |

PARAMETRIC DATA

| | | | | | |
|--------|---|--------|--------|---|------|
| ALPHA | = | 5.000 | ELEVON | = | .000 |
| AILRON | = | .000 | BOFLAP | = | .000 |
| SPOBRK | = | 25.000 | RUDDER | = | .000 |
| RN/L | = | 5.000 | | | |

| | | | | | |
|---------|--------|--------|------|---------------------|-------------|
| RUN NO. | 181/ 0 | RN/L = | 5.04 | GRADIENT INTERVAL = | -5.00/ 5.00 |
|---------|--------|--------|------|---------------------|-------------|

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|---------|--------|---------|---------|
| .902 | -4.032 | -.11110 | -.04550 | -.01000 | -.02020 | .06560 | -.01020 | .00000 |
| .901 | -2.968 | -.11110 | -.04550 | -.01000 | -.02020 | .06560 | -.01020 | .00000 |
| .902 | -1.902 | -.11110 | -.04550 | -.01000 | -.02020 | .06560 | -.01020 | -.01020 |
| .899 | - .843 | -.11110 | -.04550 | -.01000 | -.02020 | .06560 | -.01020 | -.03060 |
| .902 | .031 | -.11110 | -.04550 | -.01000 | -.02020 | .06560 | -.01020 | -.05100 |
| .901 | .426 | -.11110 | -.04550 | -.01000 | -.02020 | .06560 | -.01020 | -.06110 |
| .902 | .956 | -.11110 | -.03420 | -.01000 | -.02020 | .07700 | -.01020 | -.07130 |
| .900 | 2.050 | -.11110 | -.04550 | -.01000 | -.02020 | .06560 | -.01020 | -.08150 |
| .901 | 3.128 | -.11110 | -.04550 | -.01000 | -.02020 | .06560 | -.01020 | -.09170 |
| .899 | 4.183 | -.11110 | -.04550 | -.01000 | -.02020 | .06560 | -.01020 | -.11210 |
| .898 | 6.250 | -.11110 | -.04550 | -.01000 | -.02020 | .06560 | -.01020 | -.14270 |
| | GRADIENT | -.00000 | .00016 | .00000 | .00000 | .00016 | -.00000 | -.01489 |

AMES 118-1-11 0A145A 01

(D2F0H8) (16 JUL 77)

REFERENCE DATA

| | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|--------|
| SREF | = | 2690.0000 | 50.FT. | XMRP | = | 1076.6800 | IN. ZO |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. ZO |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. ZO |
| SCALE | = | .0500 | | | | | |

PARAMETRIC DATA

| | | | | | |
|--------|---|--------|--------|---|------|
| ALPHA | = | 20.000 | ELEVON | = | .000 |
| AILRON | = | .000 | BOFLAP | = | .000 |
| SPDBRK | = | 25.000 | RUDDER | = | .000 |
| RN/L | = | 5.000 | | | |

| | | | | | | |
|---------|--------|--------|------|---------------------|--------|------|
| BIWJ NO | 333/ 0 | RN/1 = | 4.95 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|---------|--------|--------|------|---------------------|--------|------|

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-R1 | DELL | DELR | DRHL |
|------|----------|---------|---------|---------|--------|---------|---------|---------|
| .388 | -3.451 | .02550 | .02040 | .02300 | .01980 | -.00510 | -.00320 | .06230 |
| .397 | -2.938 | .02300 | .01020 | .02300 | .01980 | -.01530 | -.00320 | .05190 |
| .397 | -1.858 | .02550 | .01020 | .02300 | .01980 | -.01530 | -.00320 | .05190 |
| .398 | -1.332 | .02550 | .01020 | .02300 | .01980 | -.01530 | -.00320 | .04150 |
| .397 | -.809 | .02550 | .01020 | .02300 | .01980 | -.01530 | -.00320 | .04150 |
| | GRADIENT | -.00000 | -.00289 | -.00000 | .00000 | -.00289 | .00000 | -.00728 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1805

(D2F0H9) (16 JUL 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

BETA = .000 ELEVON = 20.000
AILRON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

PARAMETRIC DATA

RUN NO. 423/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|----------|----------|----------|----------|---------|--------|---------|
| 1.404 | -5.006 | 20.04700 | 20.17100 | 20.05000 | 20.12300 | .12320 | .07270 | -.13360 |
| 1.404 | .052 | 20.04700 | 20.16000 | 20.04100 | 20.12300 | .11260 | .08200 | -.13360 |
| 1.401 | 2.668 | 20.04700 | 20.13000 | 20.04100 | 20.12300 | .08290 | .08200 | -.13360 |
| 1.400 | 5.194 | 20.04700 | 20.08100 | 20.04100 | 20.12300 | .03340 | .08200 | -.13360 |
| 1.399 | 7.237 | 20.04700 | 20.07100 | 20.04100 | 20.12300 | .02350 | .08200 | -.13360 |
| 1.400 | 8.255 | 20.04700 | 20.06100 | 20.04100 | 20.12300 | .01360 | .08200 | -.13360 |
| 1.400 | 10.291 | 20.04700 | 20.06100 | 20.04100 | 20.12300 | .01360 | .08200 | -.13360 |
| 1.399 | 12.320 | 20.04700 | 20.03100 | 20.04100 | 20.12300 | -.01610 | .08200 | -.13360 |
| 1.393 | 15.347 | 20.04700 | 20.00200 | 20.04100 | 20.12300 | -.04580 | .08200 | -.13360 |
| | GRADIENT | .00000 | -.01148 | -.00000 | .00000 | -.01136 | .00000 | .00000 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

ALPHA = 2.000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 87.200 RUDDER = .000
RN/L = 5.000

PARAMETRIC DATA

(D2F0I0) (08 JUL 77)

AMES 118-1-11 0A145A 01

RUN NO. 478/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|---------|---------|--------|--------|---------|--------|---------|
| .952 | -6.174 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.12540 |
| .953 | -2.009 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.19370 |
| .950 | -.957 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.20460 |
| .950 | .095 | .00850 | .00000 | .01150 | .02970 | -.00850 | .01820 | -.21560 |
| .952 | .601 | .00850 | .02040 | .01150 | .02970 | .00190 | .01820 | -.11710 |
| .951 | 1.122 | .00850 | .01020 | .01150 | .02970 | .00170 | .01820 | -.12540 |
| .950 | 2.169 | .00850 | .01020 | .01150 | .02970 | -.00850 | .01820 | -.13360 |
| .951 | 3.218 | .00850 | .00000 | .01150 | .02970 | .00000 | .01820 | -.15000 |
| .950 | 4.249 | .00000 | .00000 | .01150 | .02970 | .00000 | .01820 | -.18280 |
| .947 | 6.301 | .00000 | .00000 | .01150 | .02970 | .00000 | .01820 | -.20460 |
| .948 | 8.339 | .00000 | .00000 | .01150 | .02970 | .00000 | .01820 | -.01164 |
| | GRADIENT | -.00088 | -.00161 | .00000 | .00000 | -.00073 | .00000 | |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(D2F011) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 483/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | | | | | |
|----------|--------|--------|---------|---------|--------|---------|--------|---------|
| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
| .590 | -5.053 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.12540 |
| .592 | -.134 | .00000 | .01020 | .01150 | .02970 | .01020 | .01820 | -.12540 |
| .597 | 4.913 | .00000 | .01020 | .01150 | .03960 | .01020 | .02810 | -.12540 |
| .597 | 10.171 | .00000 | .00000 | .01150 | .02970 | .00000 | .01820 | -.11710 |
| .599 | 15.200 | .01700 | .00000 | .01150 | .02970 | -.01700 | .01820 | -.10070 |
| GRADIENT | | .00000 | -.00000 | -.00000 | .00196 | -.00000 | .00196 | .00000 |

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 87.200 RUDDER = .000
 RN/L = 5.000

AMES 118-1-11 OAI45A 01

(D2F012) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 537/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | | | | | |
|----------|--------|--------|--------|--------|--------|--------|--------|---------|
| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
| 1.203 | -6.104 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.15000 |
| 1.204 | -1.960 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.15000 |
| 1.203 | -.924 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.15000 |
| 1.204 | .031 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.15000 |
| 1.202 | .559 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.15000 |
| 1.204 | 1.055 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.15000 |
| 1.201 | 2.127 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.15000 |
| 1.201 | 3.176 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.15000 |
| 1.200 | 4.228 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.15000 |
| 1.199 | 6.324 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.15000 |
| GRADIENT | | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | -.00000 |

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 55.000 RUDDER = .000
 RN/L = 5.000

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

(02F013) (08 JUL 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 AILRON = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO BDFLAP = .000 SPDBRK = 55.000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 519/ 0 RN/L = 4.76 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|---------|--------|--------|--------|---------|---------|-----------|
| 1.404 | -14.736 | .05100 | .00000 | .01150 | .00990 | -.05100 | -.00160 | -17.76800 |
| 1.404 | -10.664 | .05100 | .00000 | .02300 | .00990 | -.05100 | -.01310 | -12.92000 |
| 1.404 | -5.433 | .05950 | .00000 | .02300 | .00990 | -.05950 | -.01110 | -6.61000 |
| 1.446 | -2.768 | .05950 | .00000 | .02300 | .00990 | -.05950 | -.01310 | -3.37060 |
| 1.404 | -.089 | .05100 | .00000 | .02300 | .00990 | -.05100 | -.01310 | -.10890 |
| | GRADIENT | -.00317 | .00000 | .00000 | .00000 | .00317 | -.00000 | 1.21782 |

AMES 118-1-11 0A145A 01

(02F014) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 AILRON = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO BDFLAP = .000 SPDBRK = 15.000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 689/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|---------|---------|-----------|
| .899 | -14.965 | .01700 | .03060 | .01150 | .00990 | .01360 | -.00160 | -18.03800 |
| .901 | -10.754 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | -13.02800 |
| .901 | -4.947 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | -6.01910 |
| .899 | -2.442 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | -2.97460 |
| .901 | -.089 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | -.10890 |
| .900 | 2.505 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | 3.05070 |
| .900 | 5.033 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | 6.12390 |
| .900 | 10.027 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | 12.15600 |
| .900 | 15.022 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | 18.10500 |
| .899 | 18.098 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | 21.71000 |
| .899 | 22.836 | .00850 | .03060 | .01150 | .00990 | .02210 | -.00160 | 27.15900 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | -.00000 | .00000 | 1.21728 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(02F015) (01 SEP 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BOFLAP = .000
SPDBRK = 40.000 RUDDER = .000
RN/L = 5.000

RUN NO. 716/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|-------|----------|--------|--------|--------|--------|--------|--------|---------|
| 1.400 | 4.984 | .00850 | .02040 | .01150 | .02970 | .01190 | .01820 | -.14180 |
| 1.399 | 10.096 | .00850 | .02040 | .01150 | .02970 | .01190 | .01820 | -.14180 |
| 1.398 | 15.166 | .00850 | .02040 | .01150 | .02970 | .01190 | .01820 | -.14180 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 |

(02F016) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = 2.000
AILRON = .000 BOFLAP = -.900
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 818/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|-----------|-----------|-----------|-----------|----------|---------|---------|
| .900 | -30.298 | -31.32600 | -29.95800 | -29.95800 | -29.95100 | 1.36840 | .00700 | -.14180 |
| .903 | -19.743 | -19.97500 | -19.05000 | -19.96400 | -19.98400 | .92470 | -.02010 | -.15000 |
| .999 | -17.282 | -10.18500 | -19.05000 | -19.94100 | -19.95200 | -8.86490 | -.01050 | -.15000 |
| .901 | -14.950 | -14.94000 | -14.93400 | -14.96900 | -14.95700 | .00660 | .01190 | -.15000 |
| .899 | -9.955 | -9.96100 | -9.93490 | -9.97480 | -9.95050 | .02610 | .02440 | -.15000 |
| .899 | -5.945 | -5.95300 | -5.94380 | -5.93700 | -5.94600 | .00920 | -.00900 | -.15000 |
| .800 | -3.939 | -3.94190 | -3.93930 | -3.93000 | -3.94310 | .00260 | -.01310 | -.15000 |
| .901 | -1.942 | -1.93560 | -1.94070 | -1.95300 | -1.94080 | -.00510 | .01220 | -.15000 |
| .901 | .005 | .00850 | .00000 | .00000 | .00990 | -.00850 | .00990 | -.15000 |
| .902 | 2.012 | 1.99500 | 2.02510 | 1.92830 | 2.03000 | .03010 | .03170 | -.15000 |
| .903 | 4.013 | 3.99240 | 4.01170 | 4.01110 | 4.03680 | .01930 | .02570 | -.15000 |
| .901 | 6.006 | 5.99700 | 5.99780 | 6.00850 | 6.02040 | .00080 | .01190 | -.16090 |
| .900 | 10.011 | 10.01000 | 9.98120 | 10.01100 | 10.04200 | -.02860 | .03100 | -.15000 |
| .901 | 15.017 | 15.01500 | 14.96400 | 15.04000 | 15.05000 | -.05100 | .01000 | -.15000 |
| | GRADIENT | .99704 | 1.00051 | .99878 | 1.00367 | .00346 | .00469 | -.00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(D2F017) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 7.500 RUDDER = .000
 RN/L = 5.000

RUN NO. 898/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|--------|--------|---------|---------|---------|
| .951 | -5.284 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.10890 |
| .950 | -2.248 | .01700 | .02040 | .01150 | .02970 | .00340 | .01820 | -.10890 |
| .949 | 2.289 | .02550 | .02040 | .01150 | .02970 | -.00510 | .01820 | -.10890 |
| .949 | 4.877 | .02550 | .02040 | .01150 | .02970 | -.00510 | .01820 | -.10890 |
| .949 | 7.959 | .02550 | .02040 | .01150 | .02970 | -.00510 | .01820 | -.10070 |
| .950 | 10.008 | .02550 | .02040 | .01150 | .02970 | -.00510 | .01820 | -.08430 |
| .950 | 12.039 | .03400 | .02040 | .01150 | .02970 | -.01360 | .01820 | -.06790 |
| | GRADIENT | .00165 | .00000 | .00000 | .00000 | -.00165 | -.00000 | .00000 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = 16.300
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

AMES 118-1-11 OAI45A 01

(D2F018) (16 JUL 77)

RUN NO. 283/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|------|----------|--------|--------|---------|---------|--------|--------|---------|
| .952 | -5.082 | .00000 | .02040 | .01150 | .01980 | .02040 | .00830 | .02080 |
| .952 | -2.055 | .00000 | .02040 | .01150 | .02970 | .02040 | .01820 | .00000 |
| .949 | 2.483 | .00000 | .03060 | .01150 | .02970 | .03060 | .01820 | -.02040 |
| .955 | 5.013 | .00000 | .03060 | .01150 | .01980 | .03060 | .00830 | .02080 |
| .949 | 6.032 | .00850 | .02040 | .01150 | .01980 | .01190 | .00830 | .00000 |
| .949 | 7.058 | .00850 | .02040 | .01150 | .01980 | .01190 | .00830 | .01040 |
| .951 | 8.083 | .00850 | .02040 | .00000 | .01980 | .01190 | .01980 | .01040 |
| | GRADIENT | .00000 | .00402 | -.00000 | -.00000 | .00402 | .00000 | -.00804 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

AMES 118-1-11 0A145A 01

(02F019) (18 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = -.11.700
SPOBRK = 25.000 RUDDER = .000
RN/L = 5.000

PARAMETRIC DATA

RUN NO. 444/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|--------|---------|---------|---------|---------|---------|---------|
| .396 | -4.996 | .00850 | .01020 | .02300 | .02970 | .00170 | .00670 | -.14180 |
| .396 | -.716 | .00000 | .01020 | .02300 | .01980 | .01020 | -.00320 | -.14180 |
| .396 | .029 | .01700 | .01020 | .02300 | .02970 | -.00680 | .00670 | -.13360 |
| .397 | 2.505 | .00850 | .01020 | .02300 | .02970 | .00170 | .00670 | -.11710 |
| .396 | 5.021 | .00850 | .01020 | .02300 | .02970 | .00170 | .00670 | -.11710 |
| .396 | 6.904 | .00000 | .01020 | .02300 | .02970 | .01020 | .00670 | -.10890 |
| .396 | 8.118 | .00000 | .01020 | .02300 | .02970 | -.03230 | -.00480 | -.10890 |
| .396 | 10.140 | .04250 | .01020 | .03450 | .02970 | -.03230 | .00670 | -.10890 |
| .396 | 12.182 | .04250 | .01020 | .02300 | .02970 | -.02380 | .00670 | -.10890 |
| .396 | 15.232 | .03400 | .01020 | .02300 | .02970 | -.02380 | .00670 | -.10890 |
| GRADIENT | | .00022 | -.00000 | -.00000 | -.00003 | -.00022 | -.00003 | .00302 |

AMES 118-1-11 0A145A 01

(02F0J0) (18 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

ALPHA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPOBRK = 25.000 RUDDER = .000
RN/L = 5.000

PARAMETRIC DATA

RUN NO. 419/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELV-LO | ELV-LI | ELV-RO | ELV-RI | DELL | DELR | DRHL |
|----------|--------|--------|--------|--------|---------|---------|---------|---------|
| .597 | -6.158 | .00850 | .00000 | .04590 | .03960 | -.00850 | -.00630 | -.10890 |
| .597 | -2.082 | .00850 | .00000 | .04590 | .03960 | -.00850 | -.00630 | -.10890 |
| .597 | -1.038 | .00850 | .00000 | .04590 | .04950 | -.00850 | .00360 | -.10890 |
| .598 | .033 | .00850 | .00000 | .04590 | .04950 | -.00850 | .00360 | -.10890 |
| .598 | .547 | .00850 | .00000 | .04590 | .03960 | -.00850 | -.00630 | -.10890 |
| .598 | 1.065 | .00850 | .00000 | .04590 | .04950 | -.00850 | .00360 | -.10890 |
| .598 | 2.120 | .00850 | .00000 | .04590 | .03960 | -.00850 | -.00630 | -.10890 |
| .598 | 3.160 | .00850 | .01020 | .04590 | .04950 | .00170 | -.00630 | -.11710 |
| .597 | 4.193 | .00850 | .01020 | .04590 | .03960 | .00170 | -.00630 | -.11710 |
| .597 | 6.250 | .00850 | .01020 | .04590 | .03960 | .00170 | -.00630 | -.12540 |
| GRADIENT | | .00000 | .00177 | .00000 | -.00025 | .00177 | -.00025 | -.00142 |

(E2F001) (06 MAR 80)

ANES 118-1-11 OAI45A 01(INVERTED)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 9/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|--------|--------|--------|
| .598 | -9.204 | .00000 | .00000 | .00000 |
| .601 | -4.942 | .00000 | .00000 | .00000 |
| .598 | -.058 | .00000 | .00000 | .00000 |
| .600 | .502 | .00000 | .00000 | .00000 |
| .597 | 3.229 | .00000 | .00000 | .00000 |
| .597 | 5.950 | .00000 | .00000 | .00000 |
| .597 | 8.114 | .00000 | .00000 | .00000 |
| .597 | 9.200 | .00000 | .00000 | .00000 |
| .597 | 11.349 | .00000 | .00000 | .00000 |
| .597 | 13.502 | .00000 | .00000 | .00000 |
| .597 | 16.650 | .00000 | .00000 | .00000 |
| .596 | 20.812 | .00000 | .00000 | .00000 |
| | GRADIENT | .00000 | .00000 | .00000 |

RUN NO. 10/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|--------|--------|--------|
| .800 | -9.447 | .00000 | .00000 | .00000 |
| .798 | -5.130 | .00000 | .00000 | .00000 |
| .799 | -.036 | .00000 | .00000 | .00000 |
| .801 | .492 | .00000 | .00000 | .00000 |
| .800 | 3.295 | .00000 | .00000 | .00000 |
| .798 | 6.097 | .00000 | .00000 | .00000 |
| .800 | 8.320 | .00000 | .00000 | .00000 |
| .799 | 9.425 | .00000 | .00000 | .00000 |
| .798 | 11.607 | .00000 | .00000 | .00000 |
| .799 | 13.759 | .00000 | .00000 | .00000 |
| .800 | 16.973 | .00000 | .00000 | .00000 |
| .799 | 21.145 | .00000 | .00000 | .00000 |
| | GRADIENT | .00000 | .00000 | .00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1612

AMES 118-1-11 OAI45A 01(INVERTED)

(E2F001) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BOFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 11/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|-------|-------|-------|
| .901 | -9.577 | .0000 | .0000 | .0000 |
| .899 | -5.230 | .0000 | .0000 | .0000 |
| .901 | -.020 | .0000 | .0000 | .0000 |
| .902 | .515 | .0000 | .0000 | .0000 |
| .902 | 3.360 | .0000 | .0000 | .0000 |
| .899 | 6.153 | .0000 | .0000 | .0000 |
| .901 | 8.361 | .0000 | .0000 | .0000 |
| .899 | 9.468 | .0000 | .0000 | .0000 |
| .900 | 11.686 | .0000 | .0000 | .0000 |
| .902 | 13.876 | .0000 | .0000 | .0000 |
| .902 | 17.074 | .0000 | .0000 | .0000 |
| .902 | 21.264 | .0000 | .0000 | .0000 |
| | GRADIENT | .0000 | .0000 | .0000 |

RUN NO. 12/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|-------|-------|-------|
| .947 | -9.641 | .0000 | .0000 | .0000 |
| .951 | -5.285 | .0000 | .0000 | .0000 |
| .953 | -.014 | .0000 | .0000 | .0000 |
| .953 | .526 | .0000 | .0000 | .0000 |
| .951 | 3.400 | .0000 | .0000 | .0000 |
| .950 | 6.232 | .0000 | .0000 | .0000 |
| .950 | 8.450 | .0000 | .0000 | .0000 |
| .950 | 9.567 | .0000 | .0000 | .0000 |
| .951 | 11.786 | .0000 | .0000 | .0000 |
| .952 | 13.975 | .0000 | .0000 | .0000 |
| .950 | 17.175 | .0000 | .0000 | .0000 |
| | GRADIENT | .0000 | .0000 | .0000 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1613

AMES 118-1-11 0A145A 01(INVERTED)

(E2F001) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 16/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|-------|----------|--------|--------|--------|
| 1.050 | -9.693 | .00000 | .00000 | .00000 |
| 1.049 | -5.289 | .00000 | .00000 | .00000 |
| 1.050 | .009 | .00000 | .00000 | .00000 |
| 1.050 | .550 | .00000 | .00000 | .00000 |
| 1.050 | 3.448 | .00000 | .00000 | .00000 |
| 1.048 | 6.321 | .00000 | .00000 | .00000 |
| 1.050 | 8.584 | .00000 | .00000 | .00000 |
| 1.050 | 9.715 | .00000 | .00000 | .00000 |
| 1.050 | 11.970 | .00000 | .00000 | .00000 |
| 1.050 | 14.188 | .00000 | .00000 | .00000 |
| 1.049 | 17.445 | .00000 | .00000 | .00000 |
| | GRADIENT | .00000 | .00000 | .00000 |

RUN NO. 15/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|-------|----------|--------|--------|--------|
| 1.102 | -9.726 | .00000 | .00000 | .00000 |
| 1.099 | -5.318 | .00000 | .00000 | .00000 |
| 1.101 | .022 | .00000 | .00000 | .00000 |
| 1.100 | .571 | .00000 | .00000 | .00000 |
| 1.102 | 3.475 | .00000 | .00000 | .00000 |
| 1.098 | 6.351 | .00000 | .00000 | .00000 |
| 1.100 | 8.613 | .00000 | .00000 | .00000 |
| 1.099 | 9.758 | .00000 | .00000 | .00000 |
| 1.101 | 12.020 | .00000 | .00000 | .00000 |
| 1.099 | 14.253 | .00000 | .00000 | .00000 |
| 1.102 | 17.561 | .00000 | .00000 | .00000 |
| | GRADIENT | .00000 | .00000 | .00000 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1614

AMES 118-1-11 0A145A 01(INVERTED)

(E2F001) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILLON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 14/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|-------|----------|--------|--------|--------|
| 1.199 | -9.706 | .00000 | .00000 | .00000 |
| 1.196 | -5.288 | .00000 | .00000 | .00000 |
| 1.201 | .033 | .00000 | .00000 | .00000 |
| 1.201 | .583 | .00000 | .00000 | .00000 |
| 1.197 | 3.469 | .00000 | .00000 | .00000 |
| 1.198 | 6.347 | .00000 | .00000 | .00000 |
| 1.197 | 8.618 | .00000 | .00000 | .00000 |
| 1.200 | 9.762 | .00000 | .00000 | .00000 |
| 1.198 | 12.024 | .00000 | .00000 | .00000 |
| 1.200 | 14.264 | .00000 | .00000 | .00000 |
| 1.198 | 17.549 | .00000 | .00000 | .00000 |
| | GRADIENT | .00000 | .00000 | .00000 |

RUN NO. 13/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|-------|----------|--------|--------|--------|
| 1.294 | -9.665 | .00000 | .00000 | .00000 |
| 1.299 | -5.223 | .00000 | .00000 | .00000 |
| 1.302 | .042 | .00000 | .00000 | .00000 |
| 1.299 | .587 | .00000 | .00000 | .00000 |
| 1.295 | 3.461 | .00000 | .00000 | .00000 |
| 1.295 | 6.327 | .00000 | .00000 | .00000 |
| 1.294 | 8.600 | .00000 | .00000 | .00000 |
| 1.295 | 9.743 | .00000 | .00000 | .00000 |
| 1.294 | 12.010 | .00000 | .00000 | .00000 |
| 1.293 | 14.243 | .00000 | .00000 | .00000 |
| 1.294 | 17.514 | .00000 | .00000 | .00000 |
| | GRADIENT | .00000 | .00000 | .00000 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1615

AMES 118-1-11 OAI45A 01(PH1=90)

(E2F002) (05 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. X0
YMRP = .0000 IN. Y0
ZMRP = 375.0000 IN. Z0

PARAMETRIC DATA

ALPHA = .000
AILRON = .000
SPDRK = 25.000
RN/L = 5.000
ELEVON = .000
BOFLAP = .000
RUDDER = .000

RUN NO. 25/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .597 | -9.559 | -.22470 | .23940 | -.13910 |
| .597 | -7.589 | -.21900 | .20590 | -.10090 |
| .597 | -5.551 | -.21400 | .17260 | -.05890 |
| .597 | -1.435 | -.21370 | .10020 | .01770 |
| .598 | -.423 | -.21140 | .08410 | .03660 |
| .601 | .641 | -.21140 | .06100 | .05340 |
| .597 | 1.609 | -.21190 | .04880 | .07330 |
| .597 | 2.629 | -.21420 | .02600 | .09400 |
| .597 | 3.642 | -.21600 | .00830 | .11520 |
| .597 | 4.626 | -.21600 | -.01060 | .13530 |
| .597 | 6.649 | -.22230 | -.05290 | .17520 |
| .597 | 8.681 | -.22610 | -.09030 | .22130 |
| .597 | 10.701 | -.22380 | -.12250 | .25940 |
| .596 | 13.540 | -.23280 | -.18870 | .30000 |
| | GRADIENT | -.00067 | -.01834 | .01945 |

RUN NO. 24/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .798 | -9.628 | -.23920 | .30230 | -.11150 |
| .798 | -7.646 | -.23960 | .25960 | -.07260 |
| .798 | -5.596 | -.23360 | .22690 | -.02600 |
| .798 | -1.449 | -.22500 | .15340 | .08510 |
| .798 | -.427 | -.22590 | .13130 | .08380 |
| .797 | .646 | -.22760 | .11180 | .10120 |
| .798 | 1.621 | -.23360 | .08990 | .11860 |
| .797 | 2.649 | -.23510 | .07250 | .14070 |
| .797 | 3.670 | -.23410 | .05170 | .16560 |
| .798 | 4.663 | -.23500 | .03090 | .18770 |
| .796 | 6.699 | -.23970 | -.01310 | .22800 |
| .797 | 8.742 | -.24470 | -.04760 | .27560 |
| .796 | 10.774 | -.26120 | -.08820 | .31350 |
| | GRADIENT | -.00189 | -.01983 | .02000 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8100 INCHES YMRP = .0000 IN. Y0
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
AILRON = .000 BOFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 23/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .901 | -9.665 | -.27170 | .35500 | -.06130 |
| .899 | -7.677 | -.26660 | .31340 | -.02100 |
| .902 | -5.619 | -.25680 | .27820 | .02800 |
| .902 | -1.454 | -.26690 | .20730 | .11180 |
| .902 | -.428 | -.27690 | .18450 | .13150 |
| .901 | .648 | -.27710 | .16200 | .15190 |
| .901 | 1.628 | -.29610 | .14230 | .17050 |
| .901 | 2.660 | -.29720 | .12560 | .19530 |
| .900 | 3.687 | -.30190 | .10390 | .21720 |
| .899 | 4.681 | -.33660 | .08040 | .23530 |
| .901 | 6.727 | -.34550 | .04890 | .28310 |
| .901 | 8.776 | -.37770 | .01260 | .32630 |
| .900 | 10.815 | -.39300 | -.02340 | .37200 |
| .899 | 13.675 | -.39620 | -.08260 | .42010 |
| | GRADIENT | -.00972 | -.02019 | .02043 |

RUN NO. 22/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .948 | -9.670 | -.30450 | .38930 | -.02230 |
| .953 | -7.680 | -.30270 | .35470 | .02430 |
| .950 | -5.617 | -.30580 | .31680 | .06550 |
| .953 | -1.451 | -.35980 | .24420 | .15210 |
| .951 | -.428 | -.37260 | .22340 | .16950 |
| .951 | .646 | -.37550 | .20290 | .19270 |
| .950 | 1.625 | -.38060 | .18280 | .21030 |
| .950 | 2.656 | -.38900 | .16100 | .22940 |
| .950 | 3.684 | -.38350 | .14410 | .25480 |
| .949 | 4.680 | -.39530 | .12340 | .27340 |
| .951 | 6.731 | -.40550 | .09150 | .31990 |
| .951 | 8.782 | -.42110 | .05890 | .36270 |
| .950 | 10.823 | -.43240 | .02360 | .40930 |
| .947 | 13.691 | -.45220 | -.02640 | .45610 |
| | GRADIENT | -.00495 | -.01966 | .01995 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1817

AMES 118-1-11 OAI45A 01(PHI=90)

(E2F002) (05 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = .000 ELEVON = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AIRRON = .000 BDFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPOBRK = 25.000 RUDDER = .000
 SCALE = .0500 RN/L = 5.00

PARAMETRIC DATA

RUN NO. 21/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|--------|
| 1.045 | -9.679 | -.32920 | .49050 | .09980 |
| 1.050 | -7.681 | -.33510 | .45490 | .13750 |
| 1.051 | -5.618 | -.33500 | .42060 | .17760 |
| 1.052 | -1.456 | -.31990 | .34970 | .25940 |
| 1.050 | -.430 | -.32790 | .32810 | .27500 |
| 1.048 | .646 | -.33320 | .30580 | .29550 |
| 1.049 | 1.628 | -.33460 | .29220 | .31750 |
| 1.050 | 2.660 | -.33390 | .27270 | .33780 |
| 1.048 | 3.684 | -.34480 | .25150 | .35600 |
| 1.049 | 4.681 | -.35380 | .23780 | .37940 |
| 1.047 | 6.730 | -.36750 | .20570 | .41890 |
| 1.047 | 8.788 | -.36890 | .17620 | .46170 |
| 1.047 | 10.840 | -.37590 | .14130 | .50500 |
| 1.048 | 13.721 | -.38210 | .10860 | .55800 |
| | GRADIENT | -.00475 | -.01822 | .01969 |

RUN NO. 20/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|--------|
| 1.097 | -9.678 | -.36120 | .52230 | .15020 |
| 1.103 | -7.684 | -.34480 | .48710 | .18010 |
| 1.104 | -5.620 | -.33520 | .45060 | .21010 |
| 1.103 | -1.455 | -.32460 | .37750 | .28820 |
| 1.101 | -.429 | -.32720 | .35820 | .30520 |
| 1.101 | .647 | -.32120 | .33880 | .32720 |
| 1.101 | 1.628 | -.31640 | .32300 | .34710 |
| 1.100 | 2.659 | -.31840 | .30330 | .36620 |
| 1.101 | 3.689 | -.32020 | .28670 | .38870 |
| 1.100 | 4.685 | -.32490 | .27410 | .40800 |
| 1.100 | 6.734 | -.33230 | .24490 | .44890 |
| 1.098 | 8.790 | -.33440 | .21660 | .49220 |
| 1.100 | 10.842 | -.33990 | .18820 | .53870 |
| 1.099 | 13.728 | -.35190 | .16080 | .59510 |
| | GRADIENT | .00056 | -.01705 | .01972 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO

LREF = 474.8100 INCHES YMRP = .0000 IN. YO

BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO

SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000

AILRON = .000 BDFLAP = .000

SPOBRK = 25.000 RUDDER = .000

RN/L = 5.000

| RUN NO. | 19/ 0 | RN/L = 5.04 | GRADIENT INTERVAL = -5.00/ 5.00 |
|---------|-------|-------------|---------------------------------|
| | MACH | BETA | CP240 CP12 CP13 |
| | 1.200 | -9.692 | .54920 .22170 |
| | 1.200 | -7.692 | .32130 .23830 |
| | 1.202 | -5.625 | .31140 .26400 |
| | 1.201 | -1.458 | .29770 .31180 |
| | 1.200 | -.437 | .29730 .32990 |
| | 1.200 | .639 | .29730 .35110 |
| | 1.199 | 1.618 | .29630 .36800 |
| | 1.198 | 2.650 | .30050 .38530 |
| | 1.199 | 3.682 | .30190 .40620 |
| | 1.198 | 4.683 | .31740 .42680 |
| | 1.198 | 6.740 | .29920 .47040 |
| | 1.198 | 8.806 | .29870 .51580 |
| | 1.197 | 10.866 | .16430 .56030 |
| | 1.198 | 13.761 | .29880 .62570 |
| | | GRADIENT | -.01364 .01855 |

| RUN NO. | 18/ 0 | RN/L = 5.00 | GRADIENT INTERVAL = -5.00/ 5.00 |
|---------|-------|-------------|---------------------------------|
| | MACH | BETA | CP240 CP12 CP13 |
| | 1.294 | -9.714 | .55860 .23370 |
| | 1.296 | -7.715 | .52280 .29510 |
| | 1.297 | -5.644 | .48660 .31750 |
| | 1.297 | -1.465 | .42810 .36080 |
| | 1.296 | -.439 | .41650 .37070 |
| | 1.299 | .612 | .40440 .38860 |
| | 1.296 | 1.622 | .38630 .40630 |
| | 1.296 | 2.655 | .34750 .42330 |
| | 1.295 | 3.689 | .31870 .43950 |
| | 1.294 | 4.691 | .29580 .45470 |
| | 1.294 | 6.751 | .25760 .49280 |
| | 1.293 | 8.820 | .19400 .53220 |
| | 1.292 | 10.889 | .14560 .57450 |
| | 1.296 | 13.834 | .09120 .63880 |
| | | GRADIENT | -.00096 -.02256 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(E2FY02) (19 JUL 77)

ANES 118-1-11 OAI45A OI(PH)=90)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 935.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 0/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| 1.200 | -9.692 | -31780 | -31780 | -31810 | -31700 | -32820 | -32820 | -33210 | -33650 | -54520 | -22170 |
| 1.200 | -7.692 | -31070 | -31030 | -31140 | -31040 | -32130 | -32130 | -32520 | -33010 | -51080 | -23830 |
| 1.202 | -5.625 | -30160 | -30380 | -30090 | -30260 | -31140 | -31140 | -31650 | -32000 | -47250 | -26400 |
| 1.201 | -1.458 | -29000 | -29220 | -29110 | -29000 | -29770 | -29770 | -30040 | -30530 | -39830 | -31180 |
| 1.200 | -4.37 | -29230 | -29260 | -29160 | -29280 | -29730 | -29730 | -29960 | -30380 | -38610 | -32990 |
| 1.200 | .639 | -29210 | -29330 | -29180 | -29310 | -29730 | -29730 | -30090 | -30400 | -37350 | -35110 |
| 1.200 | 1.618 | -29150 | -29250 | -29280 | -29350 | -29630 | -29630 | -29990 | -30410 | -35870 | -36800 |
| 1.199 | 2.650 | -29530 | -29480 | -29530 | -29500 | -30050 | -30050 | -30170 | -30600 | -34000 | -38530 |
| 1.198 | 3.682 | -29990 | -30060 | -29960 | -29930 | -30190 | -30190 | -30640 | -30890 | -32860 | -40620 |
| 1.198 | 4.683 | -30180 | -30210 | -30240 | -30220 | -30380 | -30380 | -30700 | -31110 | -37740 | -42680 |
| 1.198 | 6.740 | -30280 | -30270 | -30410 | -30380 | -29920 | -29920 | -30090 | -30740 | -28170 | -47040 |
| 1.198 | 8.806 | -30640 | -30800 | -30890 | -30800 | -29870 | -29870 | -29940 | -30160 | -21460 | -51580 |
| 1.197 | 10.866 | -31220 | -31290 | -31250 | -31280 | -29490 | -29490 | -29640 | -29840 | -16430 | -56030 |
| 1.198 | 13.761 | -31200 | -31170 | -31140 | -30990 | -29880 | -29880 | -29910 | -30040 | -10200 | -62570 |
| 1.198 | GRADIENT | -31200 | -31164 | -31186 | -30179 | -30107 | -30107 | -30119 | -30103 | -101364 | -01855 |

RUN NO. 0/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| 1.294 | -9.714 | -32760 | -32730 | -32860 | -32770 | -35370 | -35370 | -35750 | -36110 | -55860 | -23370 |
| 1.296 | -7.715 | -32050 | -32190 | -32160 | -32190 | -34340 | -34340 | -34830 | -35050 | -52280 | -29510 |
| 1.297 | -5.644 | -31250 | -31250 | -31260 | -30920 | -33880 | -33880 | -34120 | -34520 | -48660 | -31750 |
| 1.297 | -1.465 | -29200 | -29580 | -29510 | -29580 | -31220 | -31220 | -31340 | -31730 | -42810 | -36080 |
| 1.296 | -4.39 | -29560 | -29530 | -29490 | -29670 | -30750 | -30750 | -30880 | -31490 | -41650 | -37070 |
| 1.299 | .612 | -29360 | -29520 | -29480 | -29560 | -30530 | -30530 | -30970 | -31180 | -40440 | -38860 |
| 1.296 | 1.622 | -29300 | -29500 | -29440 | -29400 | -30380 | -30380 | -30840 | -30910 | -38630 | -40630 |
| 1.296 | 2.655 | -29260 | -29420 | -29570 | -29560 | -30130 | -30130 | -30640 | -30860 | -34750 | -42330 |
| 1.295 | 3.689 | -29890 | -30130 | -29790 | -30140 | -30280 | -30280 | -30790 | -31090 | -31870 | -43950 |
| 1.294 | 4.691 | -30070 | -30200 | -30050 | -30190 | -30750 | -30750 | -31020 | -31220 | -29580 | -45470 |
| 1.294 | 6.751 | -30730 | -30790 | -30590 | -30330 | -30690 | -30690 | -30910 | -31370 | -25760 | -49280 |
| 1.293 | 8.820 | -31120 | -31190 | -31210 | -31050 | -30760 | -30760 | -31130 | -31470 | -19400 | -53220 |
| 1.292 | 10.889 | -31680 | -31710 | -31570 | -31270 | -30620 | -30620 | -30690 | -31160 | -14500 | -57450 |
| 1.296 | 13.834 | -31000 | -31250 | -31100 | -31210 | -29400 | -29400 | -29620 | -29620 | -09120 | -63880 |
| 1.296 | GRADIENT | -31017 | -30103 | -30080 | -30096 | -30096 | -30096 | -30051 | -30092 | -102256 | -01578 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1620

AMES 118-1-11 0A145A 01(PHI=90)

(E2F003) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
ATLRON = .000 BOFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 26/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .596 | -9.713 | -.24740 | .37800 | -.12520 |
| .597 | -7.763 | -.24290 | .34020 | -.07100 |
| .597 | -5.730 | -.24220 | .29530 | -.01930 |
| .597 | -1.628 | -.24390 | .20260 | .08020 |
| .597 | -.616 | -.23910 | .17910 | .10850 |
| .597 | .435 | -.24600 | .15170 | .12890 |
| .597 | 1.458 | -.24200 | .12680 | .15480 |
| .597 | 2.507 | -.24820 | .10290 | .17720 |
| .597 | 3.567 | -.24760 | .07600 | .20210 |
| .597 | 4.577 | -.24530 | .04080 | .22820 |
| .597 | 6.664 | -.25150 | -.01060 | .27500 |
| .596 | 8.738 | -.25560 | -.06240 | .32360 |
| .596 | 10.798 | -.25940 | -.11280 | .36990 |
| .596 | 13.741 | -.26970 | -.18100 | .43410 |
| | GRADIENT | -.00081 | -.02548 | .02338 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(E2F004) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 43/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .596 | -10.535 | -.22710 | -.23180 | -.21930 |
| .597 | -6.436 | -.21770 | -.08490 | -.07600 |
| .597 | -1.140 | -.20360 | .04830 | .04060 |
| .599 | .027 | -.20180 | .07140 | .06350 |
| .597 | 1.534 | -.21280 | .11370 | .08880 |
| .598 | 4.227 | -.23300 | .14450 | .11550 |
| .598 | 6.423 | -.24600 | .16510 | .14380 |
| .598 | 7.531 | -.25320 | .16820 | .14980 |
| .598 | 9.749 | -.26730 | .17200 | .15130 |
| .597 | 11.948 | -.29180 | .17540 | .14040 |
| .598 | 15.208 | -.34760 | .15190 | .12440 |
| .598 | 19.879 | -.44760 | .08220 | .06120 |
| | GRADIENT | -.00593 | .01818 | .01374 |

RUN NO. 35/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .899 | -10.950 | -.35490 | -.05190 | -.02130 |
| .900 | -6.723 | -.31460 | .04420 | .05640 |
| .898 | -1.193 | -.26790 | .14570 | .13860 |
| .900 | .037 | -.25910 | .16880 | .15590 |
| .901 | 1.615 | -.28060 | .20390 | .17110 |
| .900 | 4.397 | -.31180 | .23420 | .20010 |
| .899 | 6.670 | -.33780 | .24870 | .21630 |
| .899 | 7.799 | -.33980 | .25760 | .22710 |
| .898 | 10.048 | -.36850 | .26610 | .22910 |
| .902 | 12.319 | -.40410 | .26420 | .22940 |
| .901 | 15.627 | -.45850 | .26440 | .23350 |
| .899 | 19.964 | -.48880 | .22860 | .18530 |
| | GRADIENT | -.00888 | .01590 | .01079 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BOFLAP = .000
SPDRK = 25.000 RUDDER = .000
RN/L = 5.000

-5.00/ 5.00

RUN NO. 29/ 0 RN/L = 5.02

| MACH | ALPHA | CP240 | CP12 | CP13 |
|-------|----------|---------|--------|--------|
| 1.198 | -11.013 | -30490 | .26940 | .30870 |
| 1.202 | -6.751 | -29410 | .30470 | .33880 |
| 1.197 | -1.139 | -29390 | .35510 | .34600 |
| 1.199 | .033 | -29490 | .37280 | .34720 |
| 1.199 | 1.700 | -30350 | .39290 | .35040 |
| 1.199 | 4.949 | -32720 | .40660 | .36360 |
| 1.200 | 6.872 | -34750 | .41440 | .36360 |
| 1.199 | 8.017 | -35250 | .41880 | .36520 |
| 1.199 | 10.316 | -35130 | .42690 | .36530 |
| 1.200 | 12.626 | -35660 | .42270 | .36560 |
| 1.198 | 16.016 | -38020 | .42630 | .35820 |
| 1.195 | 20.408 | -39840 | .40960 | .34980 |
| | GRADIENT | -.00610 | .00884 | .00320 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1623

AMES 118-1-11 0A145A 01

(E2F005) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = .000 ELEVON = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BOFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDBRK = 25.000 RUDDER = .000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 44/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .598 | -7.203 | -.21330 | .18000 | -.08550 |
| .598 | -6.231 | -.20930 | .16180 | -.06670 |
| .598 | -5.218 | -.20550 | .14470 | -.04680 |
| .598 | -2.114 | -.20410 | .08960 | .00020 |
| .598 | -1.068 | -.20410 | .06680 | .02010 |
| .599 | -.018 | -.20300 | .04720 | .04100 |
| .598 | .519 | -.20240 | .03750 | .05050 |
| .598 | 1.036 | -.19960 | .03010 | .06210 |
| .598 | 2.092 | -.20460 | .01270 | .07990 |
| .598 | 3.132 | -.20510 | -.00810 | .10220 |
| .597 | 4.165 | -.20770 | -.02670 | .12270 |
| .597 | 6.232 | -.20730 | -.06000 | .17250 |
| .597 | 7.247 | -.21980 | -.08490 | .18380 |
| | GRADIENT | -.00051 | -.01814 | .01945 |

RUN NO. 36/ 0 RN/L = 5.06 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .901 | -7.264 | -.26450 | .31060 | .00280 |
| .901 | -6.285 | -.25850 | .29390 | .02560 |
| .902 | -5.279 | -.25400 | .27570 | .05080 |
| .902 | -2.147 | -.25650 | .21370 | .11120 |
| .902 | -1.084 | -.25470 | .19270 | .13620 |
| .901 | -.019 | -.26970 | .16640 | .15660 |
| .900 | .533 | -.27420 | .15410 | .16680 |
| .902 | 1.062 | -.28030 | .14850 | .18080 |
| .901 | 2.137 | -.28920 | .13090 | .20320 |
| .902 | 3.192 | -.29200 | .11530 | .23070 |
| .902 | 4.240 | -.31210 | .09730 | .25200 |
| .903 | 6.316 | -.35250 | .06140 | .29610 |
| .901 | 7.349 | -.34310 | .04280 | .31730 |
| | GRADIENT | -.00874 | -.01796 | .02207 |

OAI45 TABULATED FORCE DATA

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO

LREF = 474.8100 INCHES YMRP = .0000 IN. YO

BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO

SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000

AILRON = .000 8DFLAP = .000

SPOBRK = 25.000 RUDDER = .000

RN/L = 5.000

RUN NO. 30/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|--------|
| 1.198 | -7.265 | -.32880 | .49780 | .25510 |
| 1.202 | -6.282 | -.30820 | .49030 | .27000 |
| 1.200 | -5.274 | -.30590 | .47110 | .27430 |
| 1.199 | -2.142 | -.29060 | .41740 | .31560 |
| 1.199 | -1.087 | -.29530 | .39590 | .32970 |
| 1.200 | -.018 | -.28230 | .37790 | .34950 |
| 1.199 | .519 | -.29400 | .37000 | .35800 |
| 1.199 | 1.044 | -.29390 | .36440 | .36830 |
| 1.198 | 2.115 | -.29440 | .34570 | .38930 |
| 1.198 | 3.168 | -.30030 | .32880 | .40960 |
| 1.197 | 4.216 | -.30470 | .30990 | .42810 |
| 1.195 | 6.296 | -.30840 | .28130 | .47400 |
| 1.197 | 7.333 | -.31070 | .26000 | .49400 |
| | GRADIENT | -.00184 | -.01643 | .01811 |

(E2F006) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BDFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPOBRK = 25.000 RUDDER = .000
 SCALE = .0500

PARAMETRIC DATA

| RUN NO. | 0/ 0 | RN/L | 5.02 | GRADIENT INTERVAL | -5.00/ 5.00 |
|---------|------|----------|--------|-------------------|-------------|
| | MACH | ELEVON | CP240 | CP12 | CP13 |
| | .597 | -35.872 | -21250 | .14470 | .11660 |
| | .598 | -30.604 | -21060 | .14720 | .11640 |
| | .597 | -25.470 | -22430 | .14420 | .11630 |
| | .598 | -20.356 | -24100 | .14360 | .11260 |
| | .600 | -15.312 | -24650 | .14340 | .11500 |
| | .598 | -10.155 | -23980 | .14390 | .11560 |
| | .598 | -5.044 | -22110 | .14380 | .11690 |
| | .598 | -.031 | -22650 | .14350 | .12050 |
| | .598 | 4.955 | -27620 | .14670 | .11980 |
| | .598 | 10.017 | -34660 | .14620 | .12080 |
| | .598 | 14.933 | -37570 | .15220 | .12340 |
| | .598 | 20.041 | -49580 | .14860 | .12220 |
| | | GRADIENT | -00997 | .00064 | -.00014 |

| RUN NO. | 0/ 0 | RN/L | 5.04 | GRADIENT INTERVAL | -5.00/ 5.00 |
|---------|------|----------|--------|-------------------|-------------|
| | MACH | ELEVON | CP240 | CP12 | CP13 |
| | .900 | -36.129 | -21990 | .23160 | .19820 |
| | .901 | -30.609 | -20250 | .23420 | .20170 |
| | .902 | -25.467 | -20320 | .23530 | .20110 |
| | .902 | -20.350 | -22150 | .23580 | .20080 |
| | .901 | -15.304 | -26270 | .23090 | .19780 |
| | .902 | -10.153 | -28470 | .23400 | .20020 |
| | .900 | -5.049 | -29260 | .23270 | .20080 |
| | .900 | -.034 | -29620 | .23480 | .20100 |
| | .899 | 4.964 | -33710 | .23170 | .19960 |
| | .897 | 10.055 | -38500 | .23360 | .19960 |
| | .899 | 14.975 | -38950 | .23540 | .20280 |
| | .899 | 20.095 | -48370 | .23640 | .20430 |
| | | GRADIENT | -00818 | -.00062 | -.00028 |

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0A145 TABULATED FORCE DATA

PAGE 1826

AMES 118-1-11 0A145A 01

(E2F006) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BOFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDBRK = 25.000 RUDDER = .000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 0/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP240 | CP12 | CP13 |
|-------|----------|---------|--------|--------|
| 1.199 | -35.866 | -.23770 | .40630 | .36200 |
| 1.200 | -30.613 | -.24040 | .40700 | .36180 |
| 1.201 | -25.462 | -.24270 | .40740 | .36260 |
| 1.201 | -15.315 | -.25230 | .40760 | .36420 |
| 1.200 | -10.157 | -.27960 | .40770 | .36480 |
| 1.199 | -5.043 | -.31190 | .40680 | .36240 |
| 1.198 | -.025 | -.31980 | .40620 | .36290 |
| 1.198 | 4.965 | -.32920 | .40780 | .36380 |
| 1.197 | 10.083 | -.33310 | .40540 | .36240 |
| 1.197 | 15.021 | -.32210 | .40610 | .36160 |
| 1.197 | 20.125 | -.33630 | .40690 | .36320 |
| | GRADIENT | -.00188 | .00032 | .00018 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BOFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDBRK = 25.000 RUDDER = .000
 SCALE = .0500 RN/L = 5.000

AMES 118-1-11 0A145A 01

(E2F007) (06 MAR 80)

PARAMETRIC DATA

RUN NO. 46/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .598 | -5.048 | -.23190 | .14750 | .11610 |
| .598 | -3.055 | -.22600 | .14740 | .11730 |
| .598 | -2.090 | -.22300 | .14680 | .11960 |
| .598 | -.023 | -.22740 | .14650 | .11960 |
| .598 | 1.877 | -.23800 | .14450 | .11880 |
| .598 | 2.889 | -.24590 | .14480 | .11790 |
| .598 | 4.947 | -.26940 | .14640 | .11800 |
| .598 | 8.074 | -.30600 | .14420 | .12080 |
| .598 | 10.077 | -.33200 | .14450 | .12020 |
| | GRADIENT | -.00526 | -.00023 | -.00005 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

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AMES 118-1-11 0A145A 01

(E2F007) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = .000 BETA = .000
ELEVON = .000 BDF LAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 40/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | CP240 | CP12 | CP13 |
|------|----------|--------|--------|--------|
| .900 | -5.066 | -33520 | .23230 | .19660 |
| .900 | -3.050 | -32760 | .23320 | .19840 |
| .902 | -2.085 | -33780 | .23460 | .19810 |
| .900 | -.029 | -30810 | .23470 | .19970 |
| .899 | 1.874 | -32130 | .23000 | .19730 |
| .901 | 2.892 | -32190 | .23490 | .20190 |
| .900 | 4.937 | -33950 | .23310 | .20040 |
| .899 | 8.084 | -38100 | .22970 | .19900 |
| .900 | 10.076 | -37850 | .23310 | .20250 |
| | GRADIENT | -30036 | -30012 | .00031 |

RUN NO. 32/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|--------|
| 1.199 | -5.088 | -31270 | .40730 | .36220 |
| 1.197 | -3.085 | -31390 | .40700 | .36180 |
| 1.198 | -2.102 | -31480 | .40690 | .36280 |
| 1.199 | -.011 | -32310 | .40710 | .36230 |
| 1.198 | 1.877 | -32740 | .40690 | .36340 |
| 1.198 | 2.889 | -32480 | .40640 | .36320 |
| 1.198 | 4.920 | -32230 | .40690 | .36470 |
| 1.196 | 8.084 | -32080 | .40440 | .36380 |
| 1.198 | 10.078 | -31480 | .40520 | .36310 |
| | GRADIENT | -300137 | -300003 | .00029 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELEVON = .000 AILRON = .000
SPOBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 47/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BOFLAP | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .598 | -11.751 | -24360 | .14610 | .11890 |
| .598 | -8.030 | -23630 | .14790 | .11980 |
| .598 | -5.990 | -23060 | .14690 | .12170 |
| .598 | -3.980 | -22680 | .14950 | .12320 |
| .598 | -2.010 | -22940 | .14700 | .11860 |
| .598 | .000 | -22380 | .14900 | .12120 |
| .598 | 1.970 | -22930 | .14860 | .11810 |
| .598 | 3.980 | -22730 | .14680 | .11930 |
| .598 | 5.990 | -22720 | .14540 | .12020 |
| .598 | 8.010 | -22880 | .14390 | .11750 |
| .598 | 12.050 | -22880 | .14450 | .12020 |
| .597 | 16.371 | -23210 | .14700 | .12210 |
| .597 | 22.566 | -24720 | .14850 | .12210 |
| | GRADIENT | -.00004 | -.00019 | -.00042 |

RUN NO. 41/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BOFLAP | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .900 | -11.771 | -33890 | .23130 | .19650 |
| .902 | -8.020 | -31370 | .23340 | .20210 |
| .900 | -6.000 | -31820 | .23410 | .19980 |
| .902 | -4.000 | -30720 | .23570 | .20220 |
| .899 | -2.010 | -31430 | .23290 | .19890 |
| .900 | .010 | -31700 | .23190 | .19800 |
| .900 | 1.960 | -31840 | .23090 | .19670 |
| .900 | 3.970 | -30700 | .23330 | .19960 |
| .899 | 5.970 | -30980 | .23180 | .19930 |
| .899 | 7.990 | -30720 | .23180 | .19850 |
| .900 | 12.040 | -30470 | .23250 | .19980 |
| .900 | 16.371 | -31420 | .23400 | .19950 |
| .899 | 22.556 | -31910 | .23420 | .19920 |
| | GRADIENT | -.00018 | -.00034 | -.00037 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1829

AMES 118-1-11 0A145A 01

(E2F008) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 5.000
ELEVON = .000
SPDBRK = 25.000
RUDDER = 5.000
BETA = .000
AILRON = .000
RNU/L = .000

RUN NO. 33/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BDFLAP | CP240 | CP12 | CP13 |
|-------|----------|---------|--------|--------|
| 1.199 | -11.761 | -.31950 | .40720 | .36300 |
| 1.199 | -8.020 | -.31960 | .40770 | .36270 |
| 1.198 | -6.000 | -.31750 | .40690 | .36340 |
| 1.198 | -4.010 | -.32040 | .40570 | .36270 |
| 1.199 | -2.010 | -.31870 | .40720 | .36330 |
| 1.198 | -.010 | -.31930 | .40650 | .36290 |
| 1.199 | 1.940 | -.31840 | .40810 | .36370 |
| 1.200 | 3.960 | -.31930 | .40920 | .36410 |
| 1.199 | 5.970 | -.31900 | .40870 | .36430 |
| 1.199 | 8.000 | -.31980 | .40990 | .36600 |
| 1.198 | 12.030 | -.32870 | .40750 | .36240 |
| 1.199 | 16.351 | -.33670 | .40810 | .36420 |
| 1.199 | 22.353 | -.34760 | .40840 | .36390 |
| | GRADIENT | .00013 | .00040 | .00016 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 5.000
ELEVON = .000
BDFLAP = .000
SPDBRK = 25.000
BETA = .000
AILRON = .000
RNU/L = .000

RUN NO. 48/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .598 | -8.267 | -.23000 | .14480 | .11960 |
| .598 | -4.130 | -.23190 | .14710 | .11630 |
| .598 | -2.071 | -.22690 | .14580 | .12000 |
| .598 | -.025 | -.22670 | .14770 | .12080 |
| .598 | 2.107 | -.22830 | .14460 | .11940 |
| .598 | 4.111 | -.23140 | .14410 | .11650 |
| .598 | 8.360 | -.22730 | .15020 | .12120 |
| | GRADIENT | -.00002 | -.00035 | -.00001 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

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(E2F009) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1075.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 5.000
ELEVON = .000
BDFLAP = .000
RN/L = 5.000
BETA = .000
AILRON = .000
SPDBRK = 25.000

RUN NO. 42/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .901 | -8.267 | -31170 | .23520 | .20170 |
| .901 | -4.138 | -31050 | .23590 | .20220 |
| .900 | -2.089 | -31770 | .23290 | .19970 |
| .902 | .008 | -31690 | .23300 | .19940 |
| .901 | 2.132 | -31720 | .23420 | .20040 |
| .901 | 4.111 | -31270 | .23520 | .20210 |
| .901 | 8.394 | -31470 | .23270 | .20020 |
| | GRADIENT | -.00019 | -.00001 | .00002 |

RUN NO. 34/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|---------|
| 1.199 | -12.488 | -32400 | .40840 | .36370 |
| 1.199 | -8.259 | -32180 | .40790 | .36300 |
| 1.200 | -4.121 | -31640 | .40950 | .36580 |
| 1.198 | -2.071 | -31890 | .40720 | .36350 |
| 1.198 | .008 | -31990 | .40720 | .36230 |
| 1.200 | 2.090 | -31990 | .40740 | .36310 |
| 1.199 | 4.111 | -31930 | .40780 | .36310 |
| 1.200 | 8.368 | -32070 | .40850 | .36470 |
| | GRADIENT | -.00033 | -.00016 | -.00028 |

OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 50/ 0 RN/L = 4.87 GRADIENT INTERVAL = -5.00/ 5.00

| ALPHA | MACH | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4.397 | .593 | -22310 | -22550 | -22280 | -22310 | -23630 | -23630 | -24720 | -25530 | .17960 | .15480 |
| 4.436 | .651 | -21150 | -21690 | -21150 | -21300 | -23120 | -23120 | -24220 | -25340 | .18370 | .16000 |
| 4.468 | .700 | -21980 | -21870 | -21610 | -21490 | -23990 | -23990 | -24880 | -25880 | .18370 | .15830 |
| 4.502 | .747 | -21780 | -21330 | -21090 | -21290 | -23910 | -23910 | -25190 | -26010 | .19410 | .16560 |
| 4.538 | .796 | -21240 | -21520 | -21720 | -21070 | -24870 | -24870 | -25850 | -26630 | .20040 | .17080 |
| 4.875 | .868 | -21130 | -20990 | -21130 | -21530 | -27000 | -27000 | -28150 | -29030 | .21790 | .19960 |
| 4.787 | .900 | -22210 | -22710 | -23080 | -22560 | -31620 | -31620 | -33670 | -34270 | .23240 | .21390 |
| 4.820 | .921 | -22860 | -22840 | -22750 | -22720 | -34050 | -34050 | -35030 | -35630 | .24650 | .22610 |
| 4.846 | .935 | -24310 | -24510 | -24310 | -23790 | -34390 | -34390 | -34080 | -35400 | .25260 | .23140 |
| 4.875 | .953 | -24720 | -25080 | -24950 | -24800 | -34310 | -34310 | -34460 | -35460 | .26650 | .24480 |
| 4.797 | .971 | -25130 | -25370 | -25660 | -25190 | -34170 | -34170 | -34880 | -35000 | .28390 | .26110 |
| 4.889 | .987 | -26240 | -24960 | -24790 | -26100 | -32780 | -32780 | -33820 | -34400 | .30100 | .27810 |
| 4.716 | 1.003 | -27770 | -26100 | -27760 | -26100 | -33210 | -33210 | -33180 | -34250 | .31670 | .29410 |
| 4.722 | 1.012 | -28080 | -28390 | -28500 | -28310 | -32750 | -32750 | -32770 | -33590 | .32420 | .30160 |
| 4.909 | 1.032 | -28880 | -29000 | -29080 | -29370 | -32260 | -32260 | -32940 | -33200 | .33480 | .31150 |
| 4.919 | 1.042 | -30060 | -29910 | -30320 | -30320 | -31890 | -31890 | -32600 | -33200 | .34730 | .32420 |
| 4.935 | 1.055 | -30550 | -30280 | -30000 | -30780 | -31710 | -31710 | -32600 | -33120 | .35730 | .33480 |
| 4.959 | 1.109 | -31200 | -31470 | -31240 | -31390 | -34610 | -34610 | -34710 | -32540 | .37060 | .34850 |
| 4.973 | 1.146 | -32430 | -32360 | -32400 | -32200 | -33750 | -33750 | -34140 | -34970 | .40230 | .37600 |
| 4.963 | 1.196 | -30600 | -30600 | -30590 | -30620 | -31970 | -31970 | -32370 | -34450 | .40180 | .36900 |
| 4.962 | 1.203 | -29850 | -29950 | -29810 | -29870 | -31870 | -31870 | -32030 | -32810 | .41250 | .37190 |
| 4.953 | 1.295 | -30000 | -30140 | -29760 | -29850 | -32090 | -32090 | -32310 | -32100 | .41910 | .37770 |
| 4.926 | 1.348 | -30840 | -31230 | -30740 | -30820 | -32410 | -32410 | -32630 | -32600 | .44110 | .39700 |
| 4.582 | 1.404 | -30580 | -30580 | -30630 | -30580 | -31700 | -31700 | -31850 | -32000 | .45750 | .42120 |
| | GRADIENT | -16208 | -16158 | -16212 | -16416 | -12870 | -12870 | -11363 | -10115 | .44161 | .42790 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1632

AMES 118-1-11 OAI45A 01

(E2F011) (18 MAY 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BOFLAP = .000
SPDRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 52/ 0 RN/L = 4.83 GRADIENT INTERVAL = -5.00/ 5.00

| ALPHA | MACH | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|--------|----------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|
| 14.971 | .590 | -23490 | -23760 | -23980 | -23610 | -30950 | -30950 | -32380 | -33350 | .19280 | .16720 |
| 14.630 | .647 | -24330 | -24950 | -24560 | -24350 | -32750 | -32750 | -34120 | -33490 | .19470 | .17000 |
| 14.742 | .700 | -24670 | -24650 | -24860 | -24970 | -34760 | -34760 | -35800 | -31340 | .20500 | .17360 |
| 14.829 | .740 | -25960 | -25370 | -26410 | -26200 | -37760 | -37760 | -37510 | -33700 | .20920 | .17860 |
| 14.976 | .812 | -27310 | -27100 | -27470 | -27490 | -41060 | -41060 | -39390 | -38180 | .23440 | .19920 |
| 14.828 | .881 | -28330 | -28780 | -28730 | -28260 | -42360 | -42360 | -41640 | -40470 | .26990 | .23260 |
| 14.855 | .894 | -28950 | -28040 | -28120 | -28860 | -42830 | -42830 | -42620 | -40550 | .27230 | .23460 |
| 14.891 | .909 | -28710 | -28330 | -28640 | -28380 | -43190 | -43190 | -43180 | -40710 | .28210 | .24170 |
| 15.039 | .956 | -30660 | -30650 | -31070 | -31040 | -44630 | -44630 | -44090 | -41420 | .31110 | .26870 |
| 15.082 | .969 | -31220 | -30420 | -30190 | -30650 | -45060 | -45060 | -45450 | -43750 | .32340 | .27840 |
| 15.054 | .987 | -30650 | -31000 | -31280 | -31420 | -45800 | -45800 | -45460 | -43190 | .33670 | .29240 |
| 15.088 | 1.000 | -31660 | -32050 | -32270 | -31890 | -44880 | -44880 | -43620 | -43770 | .34770 | .30490 |
| 15.115 | 1.013 | -32200 | -32050 | -33270 | -33300 | -45120 | -45120 | -45680 | -44120 | .35720 | .31470 |
| 15.093 | 1.033 | -33850 | -33850 | -33390 | -34000 | -45210 | -45210 | -44990 | -45800 | .36510 | .32080 |
| 15.074 | 1.043 | -34880 | -35220 | -34820 | -35680 | -45650 | -45650 | -45340 | -46100 | .37690 | .33330 |
| 15.167 | 1.052 | -35930 | -35360 | -36130 | -36250 | -45110 | -45110 | -44500 | -45070 | .39310 | .34900 |
| 15.274 | 1.103 | -37140 | -36600 | -36490 | -36340 | -44350 | -44350 | -45070 | -45630 | .40210 | .35860 |
| 15.243 | 1.152 | -37500 | -36070 | -35870 | -37200 | -42500 | -42500 | -42620 | -42580 | .42070 | .37300 |
| 15.222 | 1.203 | -32290 | -32460 | -32730 | -32930 | -39010 | -39010 | -39100 | -39260 | .43120 | .37300 |
| 15.204 | 1.249 | -32310 | -32260 | -32360 | -32500 | -34840 | -34840 | -34890 | -35220 | .45540 | .38920 |
| 15.162 | 1.298 | -34920 | -34950 | -34600 | -35130 | -36210 | -36210 | -36520 | -35540 | .46450 | .39420 |
| 14.803 | 1.353 | -34350 | -34440 | -34480 | -34670 | -35180 | -35180 | -35430 | -35140 | .49660 | .43040 |
| | 1.397 | -33750 | -33980 | -33900 | -33970 | -34270 | -34270 | -34340 | -34520 | .51030 | .45200 |
| | GRADIENT | -15603 | -15749 | -15347 | -15924 | -100348 | -100348 | .00242 | -03098 | .46901 | .42179 |

DATE 10 MAR 80

OAI145 TABULATED FORCE DATA

PAGE 1634

AMES 118-1-11 OAI145A 01

(E2F012) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .898 | -9.783 | -25870 | -25580 | -25670 | -25860 | -36360 | -36360 | -36920 | -37380 | - | .00290 |
| .899 | -4.883 | -23670 | -23600 | -23340 | -24060 | -25910 | -25910 | -26300 | -27640 | .08330 | .08940 |
| .901 | .126 | -22320 | -22250 | -22110 | -22340 | -26990 | -26990 | -27950 | -28580 | .17520 | .16680 |
| .899 | 3.192 | -22230 | -21980 | -22030 | -21890 | -29540 | -29540 | -30960 | -31720 | .21660 | .19990 |
| .899 | 5.186 | -22620 | -22220 | -22210 | -22700 | -33490 | -33490 | -33660 | -33450 | .24900 | .21810 |
| .899 | 5.659 | -23180 | -22590 | -22090 | -22670 | -32870 | -32870 | -34770 | -34530 | .25170 | .22290 |
| .899 | 6.208 | -23420 | -23150 | -23440 | -23180 | -33890 | -33890 | -35110 | -34460 | .25380 | .22330 |
| .899 | 7.239 | -23500 | -24080 | -24360 | -23240 | -35060 | -35060 | -36370 | -36050 | .26370 | .23080 |
| .898 | 8.294 | -24010 | -23720 | -23890 | -23300 | -36140 | -36140 | -36490 | -37320 | .26910 | .23530 |
| .900 | 9.292 | -23730 | -24800 | -24220 | -24270 | -37640 | -37640 | -37830 | -36980 | .27430 | .23650 |
| .898 | 10.337 | -24990 | -24560 | -24240 | -24580 | -38340 | -38340 | -38340 | -38650 | .27620 | .23850 |
| .899 | 11.371 | -24490 | -25560 | -25290 | -25610 | -38960 | -38960 | -40720 | -40180 | .28130 | .24430 |
| .899 | 12.386 | -26780 | -25960 | -25680 | -26080 | -40410 | -40410 | -41590 | -41060 | .28410 | .24620 |
| .899 | 13.404 | -27050 | -27390 | -27580 | -27630 | -43630 | -43630 | -44180 | -44880 | .28130 | .24040 |
| .899 | 15.471 | -30180 | -30150 | -30330 | -29570 | -47060 | -47060 | -48270 | -48510 | .27720 | .23580 |
| .899 | 20.394 | -33440 | -33300 | -33830 | -34550 | -49610 | -49610 | -50590 | -50360 | .24030 | .20080 |
| .897 | GRADIENT | .00187 | .00207 | .00170 | .00276 | .00427 | .00427 | .00553 | .00474 | .01669 | .01386 |

| MACH | | RUN NO. | | 62/ 0 | | RN/L = 5.02 | | GRADIENT INTERVAL = -5.00/ 5.00 | | CP246 | | CP12 | | CP13 | |
|----------|--------|---------|--------|--------|--------|-------------|--------|---------------------------------|--------|--------|--|------|--|------|--|
| ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 | | | | | |
| .949 | -9.896 | -27010 | -27090 | -26890 | -37520 | -37520 | -38510 | -38710 | .02780 | .05510 | | | | | |
| .950 | -4.974 | -25530 | -25670 | -25770 | -39250 | -39250 | -40040 | -41120 | .12980 | .13140 | | | | | |
| .950 | .010 | -25800 | -25890 | -25820 | -37750 | -37750 | -38580 | -39300 | .20970 | .19340 | | | | | |
| .950 | 2.568 | -26150 | -25900 | -26060 | -38610 | -38610 | -39530 | -39960 | .23900 | .21700 | | | | | |
| .950 | 5.109 | -26280 | -25010 | -25290 | -36040 | -36040 | -36270 | -37500 | .27200 | .23530 | | | | | |
| .950 | 6.115 | -24890 | -24810 | -24960 | -36450 | -36450 | -36620 | -37230 | .28170 | .24550 | | | | | |
| .949 | 7.146 | -24490 | -24730 | -24630 | -37340 | -37340 | -37210 | -37950 | .28940 | .24950 | | | | | |
| .950 | 8.163 | -25740 | -25770 | -25960 | -39570 | -39570 | -39010 | -39530 | .29320 | .25290 | | | | | |
| .950 | 9.197 | -25860 | -26210 | -25840 | -40460 | -40460 | -40770 | -40840 | .30110 | .25860 | | | | | |
| .949 | 10.225 | -27250 | -27020 | -26970 | -41440 | -41440 | -41060 | -41930 | .30470 | .25980 | | | | | |
| .946 | 11.267 | -28510 | -28440 | -28340 | -43400 | -43400 | -43450 | -44980 | .30140 | .25660 | | | | | |
| .948 | 12.286 | -29540 | -28970 | -29780 | -45340 | -45340 | -45690 | -46280 | .30370 | .25820 | | | | | |
| .951 | 13.315 | -29420 | -28750 | -29000 | -45640 | -45640 | -45760 | -45930 | .30670 | .25990 | | | | | |
| .947 | 15.380 | -32980 | -32740 | -32860 | -48700 | -48700 | -49790 | -50040 | .29820 | .25420 | | | | | |
| .949 | 20.704 | -35420 | -35260 | -35500 | -50450 | -50450 | -51540 | -52690 | .26730 | .21720 | | | | | |
| GRADIENT | .00078 | .00032 | .00037 | .00035 | .00114 | .00114 | .00098 | .00183 | .01469 | .01150 | | | | | |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

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(E2F012) (16 JUL 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BRFL = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 ATLORN = .000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 171/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.050 | -4.952 | -30450 | -30250 | -30350 | -30390 | -31740 | -31740 | -29600 | -30710 | -25500 | -25810 |
| 1.051 | .237 | -30280 | -30230 | -30520 | -30120 | -31310 | -31310 | -31720 | -31610 | -32970 | -31440 |
| 1.048 | 2.804 | -30880 | -31100 | -31130 | -31170 | -32440 | -32440 | -31820 | -31270 | -35250 | -33210 |
| 1.046 | 5.332 | -31400 | -31710 | -31940 | -31230 | -32320 | -32320 | -32290 | -31330 | -37020 | -34540 |
| 1.048 | 6.204 | -31650 | -31240 | -31420 | -30970 | -32710 | -32710 | -32010 | -32530 | -38210 | -35040 |
| 1.049 | 7.394 | -31010 | -30960 | -31480 | -30990 | -32770 | -32770 | -32520 | -32570 | -39230 | -35840 |
| 1.048 | 8.379 | -31250 | -31860 | -31800 | -32260 | -34110 | -34110 | -33020 | -33100 | -39470 | -35820 |
| 1.048 | 9.460 | -32300 | -32510 | -32120 | -31930 | -36110 | -36110 | -34600 | -34000 | -39710 | -36180 |
| 1.050 | 10.519 | -32010 | -32330 | -32900 | -33360 | -37870 | -37870 | -35860 | -34680 | -39610 | -36260 |
| 1.049 | 11.504 | -32690 | -32730 | -33300 | -32380 | -38250 | -38250 | -36110 | -38140 | -39620 | -36370 |
| 1.048 | 12.723 | -33910 | -34080 | -34430 | -34110 | -38930 | -38930 | -36350 | -37450 | -39660 | -35840 |
| 1.048 | 13.585 | -34170 | -34890 | -35280 | -35430 | -41550 | -41550 | -38880 | -37760 | -39530 | -35790 |
| 1.046 | 15.666 | -37050 | -37290 | -37860 | -37490 | -43810 | -43810 | -41760 | -39330 | -37700 | -34820 |
| 1.046 | 20.642 | -39040 | -38650 | -39530 | -38240 | -42990 | -42990 | -40040 | -39430 | -35050 | -31830 |
| | GRADIENT | -00043 | -00093 | -00091 | -00078 | -00065 | -00065 | -00304 | -00087 | -01283 | -00973 |

RUN NO. 122/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.100 | -5.494 | -30710 | -30780 | -30940 | -30860 | -32070 | -32070 | -32550 | -33340 | -28260 | -29500 |
| 1.104 | -1.165 | -30080 | -29910 | -29910 | -29970 | -31270 | -31270 | -31750 | -31960 | -35160 | -34600 |
| 1.106 | 1.142 | -30150 | -30240 | -30260 | -30150 | -31230 | -31230 | -31780 | -32710 | -35530 | -34550 |
| 1.099 | 2.432 | -31030 | -30950 | -31060 | -30830 | -32950 | -32950 | -33420 | -33650 | -37470 | -35510 |
| 1.100 | 4.991 | -31950 | -32070 | -32200 | -32030 | -35440 | -35440 | -36050 | -36120 | -39690 | -37150 |
| 1.100 | 5.907 | -32400 | -32170 | -32600 | -32130 | -36350 | -36350 | -36530 | -36590 | -40100 | -37120 |
| 1.100 | 6.948 | -32870 | -32490 | -32850 | -32760 | -36980 | -36980 | -36370 | -36370 | -40340 | -37670 |
| 1.098 | 7.973 | -33470 | -33190 | -33390 | -33470 | -36590 | -36590 | -36440 | -37280 | -40840 | -38120 |
| 1.099 | 8.969 | -33520 | -33260 | -33500 | -33360 | -36770 | -36770 | -37340 | -37340 | -41850 | -39450 |
| 1.098 | 10.149 | -33830 | -33500 | -33760 | -33560 | -38170 | -38170 | -38950 | -38900 | -42450 | -38320 |
| 1.098 | 11.014 | -33510 | -34160 | -33910 | -34190 | -39240 | -39240 | -39520 | -39900 | -42430 | -38440 |
| 1.098 | 12.091 | -34590 | -34870 | -34930 | -35180 | -39780 | -39780 | -40360 | -40850 | -42710 | -38260 |
| 1.100 | 13.046 | -35420 | -35500 | -35550 | -35610 | -40210 | -40210 | -40830 | -41560 | -42860 | -38450 |
| 1.095 | 15.217 | -38870 | -38730 | -38930 | -38810 | -43230 | -43230 | -43690 | -44160 | -4910 | -37230 |
| 1.085 | 19.660 | -40560 | -37360 | -32850 | -30100 | -45800 | -45800 | -46350 | -46680 | -40370 | -35710 |
| | GRADIENT | -00367 | -00397 | -00423 | -00388 | -00823 | -00823 | -00840 | -00750 | -00868 | -00502 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1636

AMES 118-1-11 OAI45A 01

(E2F012) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

BETA =
 AILRON =
 SPOBRK =
 RN/L =

ELEVON = .000
 BDFLAP = .000
 RUDDER = .000
 25.000
 5.000

PARAMETRIC DATA

RUN NO. 81/ 0 RN/L = 5.06 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.203 | -5.129 | -29090 | -29100 | -29030 | -29100 | -29140 | -29140 | -29870 | -30080 | -34290 | -36210 |
| 1.203 | -1.120 | -29320 | -29370 | -29230 | -29330 | -29780 | -29780 | -30080 | -30610 | -36890 | -37150 |
| 1.199 | 2.435 | -30140 | -30240 | -30130 | -30090 | -31700 | -31700 | -32060 | -32370 | -40460 | -37490 |
| 1.200 | 4.961 | -31050 | -31210 | -31320 | -31150 | -33990 | -33990 | -34370 | -34470 | -43070 | -38010 |
| 1.202 | 5.966 | -31460 | -31390 | -31560 | -31590 | -35030 | -35030 | -35320 | -35260 | -43550 | -38290 |
| 1.205 | 6.979 | -31230 | -31220 | -31000 | -30860 | -34580 | -34580 | -34790 | -34550 | -44250 | -38730 |
| 1.199 | 8.033 | -31650 | -32010 | -31650 | -31840 | -36350 | -36350 | -36620 | -36220 | -44330 | -38430 |
| 1.199 | 9.019 | -32110 | -31930 | -31880 | -32080 | -35430 | -35430 | -35680 | -35900 | -44620 | -38830 |
| 1.201 | 10.127 | -31040 | -31040 | -31180 | -31410 | -36110 | -36110 | -35940 | -35710 | -44310 | -39020 |
| 1.201 | 11.526 | -31070 | -30980 | -30910 | -30850 | -36190 | -36190 | -35990 | -36070 | -44880 | -39400 |
| 1.199 | 12.115 | -31500 | -31600 | -31930 | -31970 | -37010 | -37010 | -36970 | -36570 | -44710 | -38670 |
| 1.197 | 13.515 | -32170 | -32170 | -32500 | -32070 | -36430 | -36430 | -36970 | -36800 | -45520 | -39190 |
| 1.201 | 15.293 | -33270 | -33680 | -33730 | -33800 | -37960 | -37960 | -37850 | -37730 | -45480 | -39000 |
| 1.196 | 20.297 | -35780 | -35740 | -35800 | -35850 | -40570 | -40570 | -40450 | -40150 | -43690 | -37840 |
| | GRADIENT | -00340 | -00362 | -00411 | -00358 | -00828 | -00828 | -00844 | -00760 | -00822 | -00169 |

RUN NO. 78/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.302 | -5.112 | -28500 | -28390 | -28380 | -28540 | -29370 | -29370 | -29910 | -30530 | -36030 | -39790 |
| 1.303 | -1.173 | -29160 | -29230 | -29240 | -29120 | -30560 | -30560 | -30850 | -30900 | -40620 | -40620 |
| 1.299 | 2.376 | -29690 | -29570 | -29580 | -29870 | -32040 | -32040 | -31970 | -32340 | -42910 | -40730 |
| 1.295 | 4.895 | -30730 | -30830 | -30800 | -30680 | -34370 | -34370 | -34480 | -34810 | -45310 | -39940 |
| 1.293 | 6.696 | -31560 | -31660 | -31690 | -31730 | -35450 | -35450 | -35810 | -35740 | -45920 | -39960 |
| 1.295 | 7.043 | -31830 | -31820 | -31940 | -31960 | -35530 | -35530 | -35760 | -35900 | -46220 | -40060 |
| 1.296 | 8.067 | -32340 | -32300 | -32320 | -32560 | -36110 | -36110 | -36330 | -36680 | -46480 | -40300 |
| 1.296 | 9.130 | -32540 | -32530 | -32750 | -32750 | -36860 | -36860 | -36790 | -36650 | -47180 | -40420 |
| 1.295 | 10.134 | -32990 | -33140 | -33340 | -33240 | -37320 | -37320 | -37420 | -37270 | -46010 | -40040 |
| 1.297 | 11.156 | -33960 | -33870 | -33960 | -33970 | -38260 | -38260 | -38120 | -38000 | -46480 | -40460 |
| 1.296 | 12.198 | -34890 | -34840 | -34940 | -34880 | -38950 | -38950 | -38650 | -38240 | -46490 | -40320 |
| 1.297 | 13.258 | -35250 | -35470 | -35360 | -35420 | -38490 | -38490 | -38480 | -38350 | -47510 | -40500 |
| 1.294 | 15.313 | -35750 | -35580 | -35680 | -35740 | -38740 | -38740 | -38840 | -38640 | -47610 | -40940 |
| 1.280 | 20.319 | -32770 | -32980 | -32800 | -32910 | -36380 | -36380 | -36390 | -36410 | -46430 | -40980 |
| | GRADIENT | -00310 | -00315 | -00307 | -00308 | -00751 | -00751 | -00716 | -00771 | -00921 | -00134 |

OAI45 TABULATED FORCE DATA
ANES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

RUN NO. 145/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.397 | -9.843 | -25850 | -25850 | -25790 | -25900 | -26780 | -26780 | -26520 | -26830 | .36800 | .41250 |
| 1.404 | -4.796 | -28190 | -28280 | -28160 | -28300 | -30660 | -30660 | -30570 | -30260 | .40250 | .43310 |
| 1.405 | .241 | -29280 | -29380 | -29190 | -29210 | -31000 | -31000 | -31990 | -31580 | .44670 | .46040 |
| 1.399 | 2.776 | -30460 | -30600 | -30560 | -30450 | -31460 | -31460 | -31810 | -31660 | .46590 | .46310 |
| 1.397 | 5.296 | -30960 | -31150 | -30960 | -31170 | -31740 | -31740 | -32120 | -32310 | .48200 | .45910 |
| 1.398 | 6.299 | -31310 | -31250 | -31390 | -31440 | -32030 | -32030 | -32350 | -32430 | .46070 | .46070 |
| 1.399 | 7.385 | -32060 | -32120 | -32170 | -32240 | -32590 | -32590 | -33160 | -33180 | .48660 | .46280 |
| 1.400 | 8.343 | -32110 | -32190 | -32150 | -32250 | -32560 | -32560 | -32940 | -33280 | .49100 | .46700 |
| 1.399 | 9.363 | -32410 | -32450 | -32450 | -32480 | -32820 | -32820 | -33240 | -33290 | .49770 | .46370 |
| 1.398 | 10.468 | -32940 | -33060 | -33170 | -33140 | -33490 | -33490 | -33880 | -33890 | .51270 | .46400 |
| 1.398 | 11.403 | -33280 | -33340 | -33300 | -33350 | -33550 | -33550 | -33950 | -33950 | .50210 | .46430 |
| 1.397 | 12.535 | -33900 | -33980 | -33940 | -34020 | -33610 | -33610 | -34180 | -34520 | .50670 | .46670 |
| 1.397 | 13.492 | -34040 | -34120 | -34270 | -34230 | -33620 | -33620 | -34320 | -34350 | .51150 | .47250 |
| 1.398 | GRADIENT | -00284 | -00294 | -00301 | -00269 | -00100 | -00100 | -00180 | -00196 | .00843 | .00417 |

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 SOFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

(E2F013) (06 MAR 80)
ANES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

RUN NO. 269/ 0 RN/L = 2.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .595 | -5.751 | -22340 | -.05740 | -.07000 |
| .601 | -.813 | -20380 | .07780 | .04900 |
| .600 | 1.702 | -21350 | .12430 | .09130 |
| .598 | 4.203 | -23150 | .15070 | .11820 |
| .599 | 6.246 | -23310 | .17370 | .14230 |
| .598 | 7.246 | -24510 | .17710 | .14360 |
| .598 | 9.302 | -25390 | .18780 | .15020 |
| .598 | 11.322 | -27290 | .18720 | .15350 |
| .597 | 14.403 | -31360 | .17470 | .13640 |
| | GRADIENT | -.00552 | .01453 | .01380 |

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 SOFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 3.000

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(E2F013) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 3.000

RUN NO. 272/ 0 RN/L = 2.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|--------|---------|
| .802 | -5.768 | -.24180 | .00830 | -.00090 |
| .806 | -.800 | -.22920 | .13060 | .10110 |
| .803 | 1.723 | -.23590 | .17100 | .13850 |
| .800 | 4.257 | -.25210 | .19620 | .15940 |
| .797 | 6.282 | -.27210 | .21180 | .17410 |
| .800 | 7.276 | -.27040 | .22430 | .18430 |
| .798 | 9.283 | -.28490 | .23550 | .19580 |
| .797 | 11.289 | -.31750 | .23520 | .20290 |
| .795 | 14.249 | -.38990 | .23040 | .18520 |
| | GRADIENT | -.00453 | .01297 | .01152 |

RUN NO. 280/ 0 RN/L = 2.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|--------|--------|
| .895 | -5.054 | -.27730 | .09640 | .07880 |
| .900 | -.025 | -.26960 | .19000 | .15880 |
| .899 | 2.463 | -.27820 | .22190 | .18800 |
| .897 | 5.006 | -.30330 | .24590 | .20780 |
| .899 | 7.018 | -.31300 | .26510 | .22160 |
| .897 | 8.038 | -.32510 | .26750 | .22610 |
| .897 | 10.083 | -.33960 | .27730 | .23360 |
| .897 | 12.144 | -.36510 | .28310 | .24050 |
| .897 | 15.233 | -.40990 | .27680 | .22860 |
| | GRADIENT | -.00346 | .01282 | .01174 |

RUN NO. 276/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|--------|--------|
| .950 | -5.029 | -.40170 | .14670 | .13120 |
| .952 | -.040 | -.36580 | .22440 | .19260 |
| .947 | 2.498 | -.36420 | .25430 | .21890 |
| .947 | 5.006 | -.35320 | .27770 | .23950 |
| .947 | 7.039 | -.35880 | .29130 | .24880 |
| .947 | 8.067 | -.36520 | .29590 | .25340 |
| .949 | 10.114 | -.34780 | .30860 | .26510 |
| .949 | 12.139 | -.37990 | .31350 | .26920 |
| .947 | 15.217 | -.41330 | .30630 | .26040 |
| | GRADIENT | .00063 | .01178 | .01036 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

AMES 118-1-11 OAI45A 01

(E2F014) (16 JUL 77)

PARAMETRIC DATA

BETA = .000
 AIRLON = .000
 SPDBRK = 25.000
 RN/L = 9.000
 ELEVON = .000
 BOFLAP = .000
 RUDDER = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|--------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| .597 | .222 | -.20850 | -.20770 | -.20770 | -.20380 | -.20830 | -.20830 | -.21080 | -.21220 | .06690 | .06590 |
| .597 | 2.788 | -.21280 | -.21320 | -.21080 | -.21440 | -.21660 | -.21580 | -.22400 | -.23430 | .10880 | .10150 |
| .597 | 5.297 | -.21140 | -.21140 | -.21190 | -.21210 | -.22570 | -.22570 | -.23160 | -.25990 | .13910 | .13060 |
| .596 | 6.268 | -.21340 | -.21530 | -.21490 | -.21580 | -.23390 | -.23390 | -.24480 | -.26920 | .14550 | .13520 |
| .597 | 7.257 | -.20940 | -.21040 | -.20980 | -.21160 | -.23590 | -.23590 | -.24750 | -.28400 | .15290 | .14430 |
| .597 | 8.105 | -.21130 | -.21030 | -.20810 | -.20620 | -.24230 | -.24230 | -.26100 | -.29270 | .16160 | .14600 |
| .597 | 9.075 | -.20940 | -.20560 | -.20940 | -.20510 | -.24750 | -.24750 | -.26950 | -.30860 | .17150 | .14970 |
| .596 | 10.005 | -.00168 | -.00214 | -.00121 | -.00413 | -.00323 | -.00323 | -.00514 | -.00861 | .01633 | .01387 |

GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| .800 | .261 | -.21640 | -.21430 | -.21580 | -.21820 | -.22570 | -.22570 | -.22540 | -.23350 | .11880 | .11290 |
| .800 | 2.652 | -.21930 | -.21810 | -.20910 | -.21410 | -.23540 | -.23540 | -.23440 | -.25240 | .15030 | .14040 |
| .799 | 5.188 | -.21240 | -.21360 | -.21430 | -.21220 | -.24300 | -.24300 | -.26090 | -.27330 | .18210 | .16660 |
| .799 | 6.084 | -.20930 | -.21360 | -.20750 | -.21380 | -.24770 | -.24770 | -.26820 | -.29120 | .18790 | .17660 |
| .801 | 7.145 | -.22080 | -.21360 | -.21460 | -.20510 | -.26500 | -.26500 | -.27630 | -.29000 | .20240 | .18210 |
| .803 | 8.132 | -.22510 | -.22090 | -.21510 | -.20780 | -.28030 | -.28030 | -.28950 | -.29440 | .20580 | .18520 |
| .799 | 9.138 | -.00121 | -.00159 | -.00280 | -.00172 | -.30090 | -.30090 | -.30260 | -.31350 | .20460 | .18300 |
| .798 | 10.141 | -.00159 | -.00159 | -.00280 | -.00172 | -.30310 | -.30310 | -.31890 | -.31470 | .21270 | .18860 |
| | GRADIENT | | | | | -.00406 | -.00406 | -.00377 | -.00791 | .01318 | .01151 |

GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| .899 | -.297 | -.24560 | -.23360 | -.23730 | -.23360 | -.28370 | -.28370 | -.28450 | -.28780 | .15250 | .14830 |
| .898 | 2.259 | -.22800 | -.22690 | -.22510 | -.23110 | -.29590 | -.29590 | -.30700 | -.31780 | .19000 | .17730 |
| .898 | 4.862 | -.23140 | -.23000 | -.22470 | -.22560 | -.31040 | -.31040 | -.31850 | -.32440 | .22180 | .20080 |
| .899 | 5.917 | -.22560 | -.22860 | -.22610 | -.22880 | -.30830 | -.30830 | -.31570 | -.32010 | .23470 | .21300 |
| .896 | 6.931 | -.23450 | -.23410 | -.23200 | -.24420 | -.32420 | -.32420 | -.33070 | -.33180 | .23800 | .21630 |
| .899 | 8.023 | -.23540 | -.23410 | -.23760 | -.24080 | -.33000 | -.33000 | -.34230 | -.33780 | .25260 | .22660 |
| .899 | 9.053 | -.24640 | -.24520 | -.24770 | -.24950 | -.34340 | -.34340 | -.35320 | -.35680 | .25570 | .22900 |
| .899 | 10.082 | -.24700 | -.24510 | -.24190 | -.24450 | -.35700 | -.35700 | -.36350 | -.37180 | .25830 | .23010 |
| .899 | 11.153 | -.25240 | -.25180 | -.25470 | -.25560 | -.37060 | -.37060 | -.36990 | -.37170 | .26380 | .23030 |
| .898 | 12.120 | -.25660 | -.25540 | -.25740 | -.26010 | -.37730 | -.37730 | -.39000 | -.39720 | .26430 | .23330 |
| .900 | 13.148 | -.26480 | -.26170 | -.26160 | -.26250 | -.38790 | -.38790 | -.39940 | -.40950 | .26960 | .23560 |
| .900 | 15.246 | -.28300 | -.28810 | -.28990 | -.28700 | -.41490 | -.41490 | -.42830 | -.44230 | .26810 | .23040 |
| | GRADIENT | | | | | -.00518 | -.00518 | -.00658 | -.00708 | .01343 | .01017 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1640

AMES 118-1-11 OAI45A 01

(E2F014) (15 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 9.000

RUN NO. 381 / 0 RN/L = 8.80 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .948 | 2.288 | -26160 | -25900 | -25480 | -26230 | -35780 | -35780 | -36920 | -37910 | .19400 | .18870 |
| .947 | 2.281 | -26180 | -26040 | -26090 | -26370 | -36670 | -36670 | -37690 | -38960 | .22620 | .21290 |
| .947 | 4.907 | -25020 | -25100 | -24970 | -24850 | -33360 | -33360 | -34430 | -35370 | .25570 | .23400 |
| .948 | 5.952 | -24470 | -24520 | -24540 | -24580 | -33520 | -33520 | -34690 | -35520 | .26690 | .24330 |
| .948 | 6.981 | -24360 | -24000 | -23700 | -24210 | -34280 | -34280 | -35400 | -35910 | .27600 | .25160 |
| .949 | 8.066 | -24410 | -24350 | -24810 | -24670 | -35990 | -35990 | -36800 | -37460 | .28330 | .25660 |
| .948 | 9.088 | -24200 | -24370 | -24210 | -24830 | -37920 | -37920 | -38810 | -38660 | .28680 | .25890 |
| .948 | 10.087 | -25030 | -25420 | -25390 | -25060 | -36530 | -36530 | -38570 | -38370 | .29570 | .26410 |
| .948 | 11.132 | -27410 | -27570 | -26670 | -26530 | -38100 | -38100 | -39400 | -40110 | .29800 | .26330 |
| .949 | 12.179 | -27350 | -26580 | -27610 | -27520 | -39430 | -39430 | -41100 | -40970 | .29900 | .26540 |
| .947 | 13.176 | -28790 | -28560 | -28570 | -29080 | -41210 | -41210 | -42040 | -42970 | .26010 | .25910 |
| .949 | 15.287 | -30300 | -30310 | -29540 | -30270 | -43030 | -43030 | -44340 | -45570 | .29890 | .25910 |
| GRADIENT | | .00219 | .00155 | .00099 | .00267 | .00469 | .00469 | .00482 | .00492 | .01187 | .00872 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1642

(E2F015) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = 0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

BETA =
 AILRON =
 SPOBRK =
 RN/L =

2.000 ELEVON = .000
 .000 BDFLAP = .000
 25.000 RUDDER = .000
 5.000

PARAMETRIC DATA

RUN NO. 172/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|---------|--------|---------|---------|---------|---------|---------|--------|
| .901 | -9.864 | -25730 | -25460 | -25600 | -25770 | -27150 | -27150 | -23970 | -23540 | -.02930 | .03260 |
| .900 | -4.787 | -24370 | -24250 | -23690 | -24060 | -26700 | -26700 | -24750 | -25600 | .06530 | .13530 |
| .901 | .250 | -23960 | -24100 | -23400 | -23950 | -28890 | -28890 | -27020 | -27830 | .14540 | .22230 |
| .899 | 2.873 | -23950 | -23980 | -24180 | -23440 | -31200 | -31200 | -31340 | -30770 | .17200 | .25170 |
| .900 | 5.519 | -23110 | -23460 | -23780 | -23700 | -32940 | -32940 | -29660 | -29710 | .20010 | .28030 |
| .899 | 6.559 | -23440 | -23440 | -23460 | -24440 | -31910 | -31910 | -27940 | -27470 | .21500 | .28830 |
| .900 | 7.586 | -23700 | -23780 | -23780 | -23610 | -32950 | -32950 | -29320 | -30470 | .22000 | .29920 |
| .900 | 8.564 | -23920 | -23600 | -23610 | -24220 | -33700 | -33700 | -32180 | -33570 | .21870 | .30760 |
| .900 | 9.608 | -24520 | -24320 | -23920 | -24790 | -34610 | -34610 | -33220 | -32280 | .22300 | .31370 |
| .899 | 10.632 | -25250 | -25180 | -24960 | -25500 | -36450 | -36450 | -31480 | -28740 | .21880 | .31030 |
| .899 | 11.631 | -25420 | -25830 | -25810 | -25620 | -37250 | -37250 | -31700 | -30110 | .22550 | .31460 |
| .899 | 12.666 | -26370 | -26370 | -26690 | -26760 | -39980 | -39980 | -35190 | -31360 | .22220 | .31510 |
| .900 | 13.662 | -26860 | -27250 | -28030 | -28470 | -39330 | -39330 | -35670 | -32610 | .22260 | .32020 |
| .900 | 15.729 | -29060 | -30260 | -30240 | -29670 | -42150 | -42150 | -37280 | -39560 | .20670 | .31350 |
| .899 | 20.607 | -32550 | -31700 | -32980 | -32830 | -43650 | -43650 | -40150 | -36910 | .15150 | .27900 |
| GRADIENT | | .00058 | .00035 | -.00048 | .00073 | -.00567 | -.00567 | -.00806 | -.00644 | .01419 | .01547 |

RUN NO. 132/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|--------|
| .951 | -5.544 | -26720 | -26640 | -26670 | -27370 | -37520 | -37520 | -38240 | -39280 | .09100 | .16480 |
| .951 | -.107 | -25370 | -25470 | -25700 | -25650 | -36650 | -36650 | -36530 | -38230 | .17220 | .25130 |
| .952 | 2.460 | -25330 | -25040 | -24610 | -25270 | -37880 | -37880 | -38600 | -38310 | .19930 | .28030 |
| .950 | 5.223 | -23680 | -23880 | -24030 | -23980 | -34570 | -34570 | -34330 | -35330 | .22090 | .30490 |
| .951 | 6.190 | -23200 | -23560 | -22930 | -23440 | -33390 | -33390 | -34910 | -34860 | .23370 | .31830 |
| .950 | 7.175 | -24340 | -24290 | -23620 | -23870 | -35740 | -35740 | -36660 | -36960 | .23710 | .32180 |
| .949 | 8.122 | -24540 | -24010 | -24390 | -24210 | -36760 | -36760 | -36880 | -37850 | .24380 | .32810 |
| .950 | 9.166 | -25130 | -24830 | -24560 | -24580 | -37050 | -37050 | -38120 | -36720 | .24830 | .33720 |
| .946 | 10.146 | -26870 | -26320 | -26790 | -25970 | -39730 | -39730 | -40210 | -40990 | .24370 | .33030 |
| .947 | 11.208 | -26590 | -26810 | -26700 | -26880 | -41580 | -41580 | -41580 | -41150 | .25130 | .33400 |
| .948 | 12.203 | -27850 | -27190 | -27540 | -27900 | -42010 | -42010 | -41960 | -42700 | .25350 | .33890 |
| .946 | 13.207 | -28890 | -28820 | -28800 | -29650 | -43650 | -43650 | -44530 | -44350 | .24970 | .33620 |
| .946 | 15.282 | -31040 | -31750 | -31290 | -31820 | -46310 | -46310 | -46390 | -47280 | .24260 | .33540 |
| .947 | 20.288 | -33990 | -33690 | -34980 | -35230 | -47010 | -47010 | -48380 | -47890 | .20540 | .31080 |
| GRADIENT | | .00016 | .00168 | .00425 | .00148 | -.00475 | -.00475 | -.00806 | -.00031 | .01056 | .01130 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

AMES 118-1-11 OAI45A 01

PAGE 1843

(E2F015) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO.

56/ 0

RN/L =

4.98

GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 1.200 | -11.058 | -28450 | -28350 | -28210 | -28300 | -28980 | -28980 | -29690 | -30120 | 27340 | 33040 |
| 1.203 | -5.670 | -28340 | -28280 | -28310 | -28250 | -28740 | -28740 | -29380 | -29700 | 30820 | 38520 |
| 1.202 | -.048 | -28340 | -28410 | -28530 | -28530 | -28990 | -28990 | -29440 | -29990 | 35050 | 40840 |
| 1.199 | 2.866 | -29760 | -29660 | -29690 | -29730 | -31890 | -31890 | -32290 | -32930 | 35970 | 41880 |
| 1.201 | 5.812 | -30720 | -30820 | -30860 | -31010 | -34190 | -34190 | -34340 | -34310 | 37860 | 42670 |
| 1.201 | 6.992 | -30840 | -30780 | -30810 | -30840 | -34220 | -34220 | -34490 | -34490 | 38030 | 42960 |
| 1.200 | 8.163 | -31040 | -31040 | -31220 | -31310 | -35240 | -35240 | -34910 | -35240 | 38250 | 43280 |
| 1.198 | 9.315 | -31250 | -31340 | -31480 | -31420 | -35600 | -35600 | -35800 | -36400 | 38870 | 43800 |
| 1.198 | 10.472 | -30660 | -31280 | -31300 | -31340 | -36000 | -36000 | -35720 | -36130 | 38510 | 43860 |
| 1.198 | 11.618 | -31190 | -31110 | -31130 | -31120 | -36750 | -36750 | -36670 | -37040 | 38680 | 44140 |
| 1.200 | 12.761 | -30480 | -30720 | -30550 | -30750 | -36260 | -36260 | -36390 | -36680 | 39430 | 44460 |
| 1.198 | 13.896 | -31090 | -31380 | -31550 | -31480 | -37050 | -37050 | -37050 | -37230 | 39390 | 44320 |
| 1.196 | 15.024 | -32670 | -32600 | -32640 | -32760 | -37840 | -37840 | -37950 | -37900 | 38970 | 44080 |
| 1.192 | 17.262 | -34860 | -34770 | -34840 | -34840 | -40370 | -40370 | -40540 | -40800 | 37930 | 43610 |
| 1.192 | 20.910 | -35950 | -36110 | -36080 | -36170 | -41620 | -41620 | -41630 | -41490 | 36660 | 40326 |
| | GRADIENT | -00504 | -00444 | -00412 | -00426 | -01029 | -01029 | -01011 | -01043 | | |

RUN NO.

55/ 0

RN/L =

4.96

GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 1.295 | -10.587 | -26020 | -26250 | -26120 | -26150 | -26300 | -26300 | -26700 | -26970 | 32690 | 38860 |
| 1.302 | -5.627 | -27650 | -27730 | -27750 | -27970 | -28340 | -28340 | -28700 | -29350 | 34390 | 41760 |
| 1.302 | -.270 | -28360 | -28230 | -28330 | -28390 | -29430 | -29430 | -29380 | -29740 | 36910 | 43420 |
| 1.299 | .033 | -28320 | -28660 | -28590 | -28480 | -29690 | -29690 | -29940 | -30140 | 37110 | 43190 |
| 1.298 | 2.532 | -29350 | -29530 | -29560 | -29490 | -31280 | -31280 | -31430 | -31860 | 38970 | 43450 |
| 1.295 | 5.468 | -30810 | -30700 | -30880 | -30780 | -34330 | -34330 | -34330 | -34660 | 40470 | 43310 |
| 1.296 | 6.642 | -31580 | -31200 | -31540 | -31250 | -35280 | -35280 | -35320 | -35700 | 40880 | 43460 |
| 1.298 | 7.815 | -31630 | -31860 | -31960 | -31850 | -35790 | -35790 | -36070 | -36500 | 41310 | 43670 |
| 1.297 | 8.974 | -32130 | -32370 | -32370 | -32460 | -36200 | -36200 | -36260 | -36510 | 42190 | 43640 |
| 1.295 | 10.118 | -32830 | -32860 | -32860 | -32930 | -36830 | -36830 | -36800 | -37230 | 41280 | 43670 |
| 1.294 | 11.267 | -33470 | -33470 | -33470 | -33900 | -37380 | -37380 | -37460 | -37960 | 41450 | 44170 |
| 1.294 | 12.431 | -34190 | -34340 | -34300 | -34190 | -37660 | -37660 | -37760 | -38030 | 41740 | 44530 |
| 1.294 | 13.586 | -34460 | -34370 | -34460 | -34570 | -37300 | -37300 | -37470 | -37660 | 42440 | 44810 |
| 1.294 | 14.674 | -34750 | -34750 | -34650 | -34680 | -37730 | -37730 | -37900 | -37860 | 42420 | 45070 |
| 1.294 | 16.895 | -33560 | -33870 | -34170 | -33950 | -37290 | -37290 | -37460 | -37460 | 41850 | 45570 |
| 1.290 | 20.825 | -32240 | -32300 | -32260 | -32410 | -35840 | -35840 | -35900 | -36030 | 40840 | 46130 |
| 1.284 | GRADIENT | -00376 | -00419 | -00419 | -00397 | -00651 | -00651 | -00679 | -00730 | 00739 | 00047 |

BETA = 2.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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(E2F015) (16 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 146/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.401 | -5.029 | -27660 | -27580 | -27660 | -27670 | -28710 | -28710 | -29800 | -29680 | -36320 | -47290 |
| 1.402 | .218 | -29520 | -29540 | -29410 | -29440 | -30170 | -30170 | -31140 | -30900 | -42110 | -48210 |
| 1.401 | 2.828 | -30010 | -30090 | -30030 | -29850 | -30530 | -30530 | -31440 | -31180 | -43390 | -48440 |
| 1.403 | 5.476 | -30670 | -30650 | -30710 | -30700 | -31590 | -31590 | -31660 | -31670 | -45650 | -47550 |
| 1.403 | 6.498 | -30870 | -31020 | -30980 | -31020 | -31670 | -31670 | -32260 | -32130 | -46150 | -47580 |
| 1.402 | 7.566 | -31610 | -31450 | -31540 | -31530 | -31840 | -31840 | -32110 | -32580 | -46640 | -47920 |
| 1.402 | 8.523 | -31770 | -31890 | -31980 | -31860 | -32390 | -32390 | -33050 | -32920 | -47330 | -48110 |
| 1.400 | 9.566 | -32050 | -32170 | -32180 | -32360 | -32480 | -32480 | -32800 | -33250 | -47810 | -48550 |
| 1.401 | 10.620 | -32600 | -32720 | -32810 | -32870 | -33100 | -33100 | -33550 | -33480 | -47480 | -48530 |
| 1.401 | 11.521 | -32760 | -32700 | -32700 | -32910 | -33090 | -33090 | -33640 | -33450 | -47930 | -48630 |
| 1.400 | GRADIENT | -00188 | -00211 | -00238 | -00157 | -00138 | -00138 | -00115 | -00107 | -00490 | -00098 |

(E2F016) (06 MAR 80)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 278/ 0 RN/L = 2.98 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

ALPHA = -5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 3.000

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|--------|--------|--------|
| .896 | -6.223 | -26260 | .20990 | -01680 |
| .899 | -2.118 | -27830 | .13020 | .04570 |
| .899 | -1.069 | -27130 | .11560 | .06700 |
| .899 | .067 | -27760 | .09670 | .08070 |
| .897 | .492 | -27890 | .09030 | .08700 |
| .897 | 1.009 | -28430 | .08210 | .09520 |
| .896 | 2.048 | -29180 | .06730 | .11380 |
| .896 | 3.080 | -29030 | .05460 | .13640 |
| .895 | 4.111 | -30360 | .03440 | .15060 |
| .895 | 6.171 | -28200 | .00710 | .18890 |
| .895 | GRADIENT | -00447 | -01514 | .01683 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

PARAMETRIC DATA
ALPHA = -5.000
AILRON = .000
SPDBRK = 25.000
RUDDER = 3.000
ELEVON = .000
BDFLAP = .000
RUDDER = .000

RUN NO. 277/ 0 RN/L = 2.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .952 | -6.230 | -.36100 | .25230 | .03660 |
| .952 | -2.128 | -.39360 | .18090 | .10290 |
| .950 | -1.076 | -.39750 | .16210 | .11820 |
| .951 | -.024 | -.39460 | .14730 | .13230 |
| .952 | .495 | -.39190 | .13830 | .13980 |
| .951 | 1.009 | -.39140 | .13270 | .14850 |
| .948 | 2.050 | -.39710 | .11510 | .16020 |
| .948 | 3.079 | -.39860 | .09570 | .17580 |
| .950 | 4.131 | -.40130 | .08690 | .19890 |
| .949 | 6.175 | -.40340 | .05270 | .22730 |
| | GRADIENT | -.00101 | -.01531 | .01479 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

PARAMETRIC DATA

ALPHA = .000
AILRON = .000
SPDBRK = 25.000
RUDDER = 5.000
ELEVON = .000
BDFLAP = .000
RUDDER = .000

RUN NO. 185/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .597 | -6.196 | -.20710 | .20690 | -.04190 |
| .599 | -2.146 | -.21220 | .12060 | .02780 |
| .600 | -1.090 | -.20660 | .10490 | .05670 |
| .599 | -.004 | -.20440 | .08450 | .08030 |
| .599 | .542 | -.20470 | .07460 | .08960 |
| .599 | 1.077 | -.20730 | .06320 | .09930 |
| .599 | 2.154 | -.20940 | .04210 | .11740 |
| .598 | 3.204 | -.20930 | .02330 | .14380 |
| .599 | 4.243 | -.21390 | -.00030 | .16040 |
| .598 | 6.294 | -.21150 | -.03730 | .21030 |
| | GRADIENT | -.00057 | -.01903 | .02033 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

AMES 118-1-11 OAI45A 01

(E2F017) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 113/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .799 | -6.207 | -.24750 | .24540 | -.01670 |
| .798 | -2.127 | -.22330 | .16210 | .06740 |
| .798 | -1.060 | -.20470 | .14390 | .09400 |
| .798 | .046 | -.20490 | .11860 | .11810 |
| .798 | .582 | -.20300 | .10940 | .12590 |
| .798 | 1.118 | -.21830 | .09950 | .13650 |
| .799 | 2.202 | -.22360 | .07410 | .15860 |
| .798 | 3.260 | -.23080 | .05310 | .18080 |
| .798 | 4.307 | -.23420 | .03210 | .20500 |
| .796 | 6.376 | -.23990 | -.00710 | .25090 |
| | GRADIENT | -.00365 | -.02049 | .02083 |

RUN NO. 101/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .900 | -7.192 | -.27480 | .31330 | .00620 |
| .902 | -6.231 | -.25970 | .30120 | .03560 |
| .902 | -2.116 | -.26800 | .21740 | .12120 |
| .902 | -1.047 | -.26840 | .19640 | .14620 |
| .902 | .014 | -.27190 | .17020 | .16650 |
| .902 | .588 | -.27310 | .16530 | .18270 |
| .901 | 1.124 | -.28640 | .15360 | .19010 |
| .900 | 2.209 | -.29050 | .13190 | .21270 |
| .902 | 3.266 | -.30580 | .10920 | .23650 |
| .900 | 4.314 | -.31030 | .08630 | .25910 |
| .899 | 6.386 | -.35840 | .04550 | .30080 |
| .899 | 7.418 | -.34880 | .02860 | .32570 |
| | GRADIENT | -.00744 | -.02016 | .02122 |

OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

(E2F017) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

| RUN NO. 125/ 0 | | RN/L = 4.98 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|--|-------------|--|---------------------------------|--|
| MACH | | BETA | | CP240 CP12 CP13 | |
| .951 | | -6.164 | | -.29260 .32780 .06830 | |
| .952 | | -1.988 | | -.34180 .25080 .15710 | |
| .951 | | -.913 | | -.35710 .23400 .18210 | |
| .951 | | .159 | | -.36220 .21170 .20420 | |
| .951 | | .684 | | -.36220 .20290 .21690 | |
| .951 | | 1.216 | | -.36850 .19250 .22620 | |
| .950 | | 2.285 | | -.37070 .17000 .24560 | |
| .951 | | 3.325 | | -.37300 .15010 .27010 | |
| .951 | | 4.365 | | -.38060 .12810 .29190 | |
| .948 | | 6.402 | | -.39080 .09040 .33700 | |
| | | GRADIENT | | -.00529 -.01950 .02093 | |

| RUN NO. 162/ 0 | | RN/L = 5.01 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|--|-------------|--|---------------------------------|--|
| MACH | | BETA | | CP240 CP12 CP13 | |
| 1.200 | | -6.282 | | -.32390 .51530 .27850 | |
| 1.203 | | -2.166 | | -.29300 .43960 .33570 | |
| 1.200 | | -1.096 | | -.29560 .41830 .35320 | |
| 1.201 | | .014 | | -.29440 .40220 .37610 | |
| 1.200 | | .550 | | -.29600 .39200 .38460 | |
| 1.199 | | 1.095 | | -.29010 .38490 .39920 | |
| 1.198 | | 2.177 | | -.29350 .36410 .41890 | |
| 1.199 | | 3.241 | | -.30050 .34640 .44140 | |
| 1.199 | | 4.291 | | -.30190 .33120 .46290 | |
| 1.196 | | 6.373 | | -.31120 .30610 .51330 | |
| | | GRADIENT | | -.00116 -.01678 .01993 | |

| RUN NO. 133/ 0 | | RN/L = 4.96 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|--|-------------|--|---------------------------------|--|
| MACH | | BETA | | CP240 CP12 CP13 | |
| 1.295 | | -6.261 | | -.33330 .51090 .33340 | |
| 1.301 | | -2.146 | | -.30050 .44090 .38060 | |
| 1.295 | | -1.074 | | -.29600 .42210 .38830 | |
| 1.296 | | .039 | | -.29230 .40530 .40480 | |
| 1.297 | | .579 | | -.29110 .39820 .41290 | |
| 1.298 | | 1.118 | | -.29230 .39160 .42120 | |
| 1.296 | | 2.208 | | -.29080 .37260 .43840 | |
| 1.297 | | 3.274 | | -.29350 .35580 .45820 | |
| 1.297 | | 4.332 | | -.28920 .34640 .47990 | |
| 1.295 | | 6.408 | | -.29500 .32560 .52020 | |
| | | GRADIENT | | .00129 -.01481 .01559 | |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

PAGE 1648
(E2F017) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = .000 ELEVON = .000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BOFLAP = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDBRK = 25.000 RUDDER = .000
SCALE = .0500 RN/L = -5.00/ 5.00

PARAMETRIC DATA

RUN NO. 152/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|---------|----------|---------|
| 1.398 | -6.323 | -31340 | 54320 | 32870 |
| 1.406 | -2.187 | -30790 | 47910 | 42480 |
| 1.405 | -1.111 | -30930 | 46350 | 43560 |
| 1.404 | .008 | -30410 | 45000 | 45270 |
| 1.403 | .551 | -30730 | 44270 | 46140 |
| 1.402 | 1.093 | -30790 | 43310 | 46670 |
| 1.400 | 2.193 | -30900 | 42320 | 47860 |
| 1.400 | 3.261 | -30970 | 40570 | 49570 |
| 1.400 | 4.318 | -30660 | 38370 | 51680 |
| 1.397 | 6.416 | -29810 | 31790 | 55310 |
| | GRADIENT | -0.0007 | -0.01409 | 0.01384 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = .000 ELEVON = .000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BOFLAP = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDBRK = 25.000 RUDDER = .000
SCALE = .0500 RN/L = -5.00/ 5.00

PARAMETRIC DATA

RUN NO. 0/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
| .597 | -6.196 | -20290 | -20190 | -20500 | -20310 | -20710 | -20710 | -21130 | -21590 | 20890 | CP13 |
| .599 | -2.146 | -20640 | -20710 | -20780 | -20900 | -21220 | -21220 | -21320 | -21460 | 12060 | -.04190 |
| .600 | -1.090 | -20150 | -20100 | -20530 | -20270 | -20660 | -20660 | -20770 | -20890 | 10490 | .02780 |
| .599 | -.004 | 19980 | 20000 | 19720 | 20000 | 20440 | 20440 | 20720 | 20770 | 08450 | .05670 |
| .599 | .542 | -20240 | -20730 | -20570 | -20400 | -20470 | -20470 | -20890 | -21250 | 07460 | .08030 |
| .599 | 1.077 | -20140 | -20070 | -20540 | -20450 | -20730 | -20730 | -20850 | -21010 | 06320 | .09930 |
| .599 | 2.154 | -20500 | -20420 | -20420 | -20140 | -20940 | -20940 | -21030 | -21340 | 04210 | .11740 |
| .598 | 3.204 | -20520 | -20350 | -20440 | -20420 | -20930 | -20930 | -20880 | -21380 | 02330 | 14380 |
| .599 | 4.243 | -21280 | -21070 | -21070 | -21090 | -20930 | -21390 | -21510 | -22080 | -.00030 | .16040 |
| .598 | 6.294 | -21540 | -21650 | -21250 | -21390 | -21150 | -21150 | -21480 | -21500 | -.03730 | 21030 |
| | GRADIENT | -0.00108 | -0.00094 | -0.00045 | -0.00034 | -0.00057 | -0.00057 | -0.0037 | -0.0013 | -.01903 | .02033 |

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OAI45 TABULATED FORCE DATA

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(E2FY17) (24 AUG 78)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = .000 ELEVON = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AIRLON = .000 BOFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDBRK = 25.000 RUDDER = .000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 0/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .799 | -6.207 | -22140 | -22030 | -21990 | -22230 | -24750 | -24750 | -22640 | -22190 | -24540 | -01670 |
| .798 | -2.127 | -21570 | -21480 | -21520 | -21400 | -22330 | -22330 | -21210 | -22500 | -16210 | -06740 |
| .798 | -1.060 | -21640 | -21360 | -21370 | -20920 | -20470 | -20470 | -22700 | -23050 | -14390 | -09400 |
| .798 | .046 | -21510 | -21250 | -21300 | -21510 | -20490 | -20490 | -22700 | -23060 | -11860 | -11810 |
| .798 | .582 | -21270 | -21230 | -21910 | -21360 | -20300 | -20300 | -22510 | -22830 | -10940 | -12590 |
| .798 | 1.118 | -21340 | -21580 | -21300 | -21740 | -21830 | -21830 | -22930 | -23400 | -09950 | -13650 |
| .799 | 2.202 | -21330 | -21390 | -21450 | -21390 | -22360 | -22360 | -22000 | -23430 | -07410 | -15860 |
| .798 | 3.260 | -22040 | -21640 | -22300 | -21850 | -23080 | -23080 | -22860 | -23060 | -05310 | -18080 |
| .798 | 4.307 | -22230 | -22700 | -22700 | -22610 | -23420 | -23420 | -23210 | -23350 | -03210 | -20500 |
| .796 | 6.376 | -23270 | -23840 | -23670 | -23310 | -23990 | -23990 | -23670 | -24110 | -00710 | -25090 |
| GRADIENT | | -00091 | -00148 | -00179 | -00180 | -00365 | -00365 | -00139 | -00101 | -02049 | -02083 |

RUN NO. 0/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .951 | -6.164 | -26280 | -26250 | -26330 | -26070 | -29260 | -29260 | -27350 | -30930 | -32780 | -06830 |
| .952 | -1.988 | -24700 | -24730 | -24620 | -24520 | -34180 | -34180 | -34960 | -36010 | -25080 | -15710 |
| .951 | .913 | -25880 | -25640 | -25640 | -26040 | -35710 | -35710 | -36320 | -37390 | -23400 | -18210 |
| .951 | .159 | -25320 | -25450 | -25580 | -25280 | -36220 | -36220 | -36910 | -37590 | -21170 | -20420 |
| .951 | .684 | -26020 | -26020 | -26010 | -25660 | -36220 | -36220 | -37270 | -38130 | -20290 | -21690 |
| .951 | 1.216 | -25740 | -26390 | -26020 | -25830 | -36850 | -36850 | -37460 | -38020 | -19250 | -22620 |
| .950 | 2.285 | -26160 | -25640 | -25460 | -25530 | -37070 | -37070 | -37970 | -38210 | -17000 | -24560 |
| .951 | 3.325 | -26350 | -25780 | -26110 | -26520 | -37300 | -37300 | -38480 | -38510 | -15010 | -27010 |
| .951 | 4.365 | -26870 | -27510 | -26970 | -27280 | -38060 | -38060 | -38600 | -39300 | -12810 | -29190 |
| .948 | 6.402 | -28680 | -28690 | -29140 | -29140 | -39080 | -39080 | -39250 | -40540 | -09040 | -33700 |
| GRADIENT | | -00275 | -00292 | -00260 | -00320 | -00529 | -00529 | -00546 | -00422 | -01950 | -02093 |

RUN NO. 0/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.295 | -6.261 | -31340 | -31420 | -31240 | -31310 | -33330 | -33330 | -33460 | -33830 | -51090 | -33340 |
| 1.301 | -2.146 | -28810 | -28740 | -28760 | -28690 | -30050 | -30050 | -30490 | -30700 | -44090 | -38060 |
| 1.295 | -1.074 | -28720 | -28730 | -28590 | -28850 | -29600 | -29600 | -30140 | -30500 | -42210 | -38830 |
| 1.296 | .039 | -28590 | -28620 | -28660 | -28820 | -29230 | -29230 | -29690 | -30100 | -40530 | -40480 |
| 1.297 | .579 | -28810 | -28920 | -28620 | -28740 | -29110 | -29110 | -29620 | -29880 | -39820 | -41290 |
| 1.298 | 1.118 | -28440 | -28760 | -28440 | -28490 | -29230 | -29230 | -29270 | -29440 | -39160 | -42120 |
| 1.296 | 2.208 | -28710 | -28680 | -28710 | -28920 | -29080 | -29080 | -29410 | -29770 | -37260 | -43840 |
| 1.297 | 3.274 | -28940 | -29360 | -29390 | -29420 | -29350 | -29350 | -29580 | -30050 | -35580 | -45820 |
| 1.297 | 4.332 | -28990 | -29160 | -29280 | -29370 | -29920 | -29920 | -29230 | -29670 | -34640 | -47990 |
| 1.295 | 6.408 | -29300 | -29700 | -29730 | -30030 | -29500 | -29500 | -29910 | -30310 | -32560 | -52020 |
| GRADIENT | | -00035 | -00083 | -00108 | -00110 | -00129 | -00129 | -00159 | -00140 | -01481 | -01559 |

OAI45 TABULATED FORCE DATA

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(E2FY17) (24 AUG 78)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 0/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|---------|---------|--------|---------|---------|--------|
| 1.398 | -6.323 | -29950 | -30010 | -30000 | -30000 | -31340 | -31340 | -32010 | -32030 | .54320 | .32870 |
| 1.405 | -2.187 | -29410 | -29450 | -29550 | -29550 | -30790 | -30790 | -32020 | -31560 | .47910 | .42480 |
| 1.405 | -1.111 | -29600 | -29630 | -29680 | -29680 | -30930 | -30930 | -31920 | -31740 | .46350 | .43560 |
| 1.404 | .008 | -29610 | -29630 | -29550 | -29650 | -30410 | -30410 | -31830 | -31600 | .45000 | .45270 |
| 1.403 | .551 | -29540 | -29490 | -29650 | -29610 | -30730 | -30730 | -32040 | -31930 | .44270 | .46140 |
| 1.402 | 1.093 | -29750 | -29660 | -29690 | -29610 | -30790 | -30790 | -31860 | -31960 | .43310 | .46670 |
| 1.400 | 2.193 | -29580 | -29700 | -29710 | -29540 | -30900 | -30900 | -32360 | -32380 | .42320 | .47860 |
| 1.400 | 3.261 | -29300 | -29390 | -29440 | -29360 | -30970 | -30970 | -32120 | -31700 | .40570 | .49570 |
| 1.400 | 4.318 | -29130 | -29220 | -29080 | -29130 | -30660 | -30660 | -31550 | -31490 | .38370 | .51680 |
| 1.397 | 6.416 | -26800 | -28850 | -28860 | -28650 | -29810 | -29810 | -31310 | -31680 | .31790 | .55310 |
| | GRADIENT | .00048 | .00039 | .00058 | .00067 | -.00007 | -.00007 | .00016 | -.00015 | -.01409 | .01384 |

AMES 118-1-11 OAI45A 01

(E2F018) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 186/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .598 | -6.033 | -.23250 | .30210 | -.00740 |
| .599 | -1.887 | -.23050 | .20460 | .09320 |
| .598 | -.865 | -.22910 | .18020 | .11850 |
| .599 | .086 | -.23540 | .15340 | .13870 |
| .599 | .559 | -.22790 | .14580 | .15770 |
| .599 | 1.056 | -.23190 | .13240 | .16750 |
| .599 | 2.135 | -.23290 | .10960 | .19630 |
| .600 | 3.191 | -.23220 | .08570 | .22440 |
| .599 | 4.263 | -.23770 | .05860 | .24570 |
| .599 | 6.350 | -.23600 | .00420 | .29960 |
| | GRADIENT | -.00096 | -.02344 | .02535 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = .000
 ALLRON = .000
 SPOBRK = 25.000
 RN/L = 5.000
 ELEVON = .000
 BDFLAP = .000
 RUDDER = .000

RUN NO. 114/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .798 | -6.048 | -.23390 | .34170 | .02150 |
| .797 | -1.851 | -.24190 | .23460 | .12770 |
| .799 | -.778 | -.24020 | .21590 | .15740 |
| .798 | .076 | -.24520 | .19420 | .17460 |
| .797 | .451 | -.24380 | .18880 | .18540 |
| .798 | .976 | -.24160 | .17490 | .20050 |
| .799 | 2.072 | -.24220 | .14550 | .22860 |
| .798 | 3.141 | -.24500 | .12000 | .25520 |
| .798 | 4.196 | -.24690 | .09180 | .28100 |
| .798 | 6.262 | -.25650 | .04380 | .33120 |
| | GRADIENT | -.00076 | -.02403 | .02539 |

RUN NO. 97/ 0 RN/L = 4.91 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .901 | -7.097 | -.32830 | .40800 | .03400 |
| .901 | -6.090 | -.33160 | .38950 | .06370 |
| .901 | -1.869 | -.33950 | .29960 | .17400 |
| .901 | -.807 | -.33420 | .27410 | .20170 |
| .900 | .076 | -.33800 | .25140 | .22250 |
| .900 | .485 | -.35030 | .23850 | .23420 |
| .901 | .988 | -.34860 | .22430 | .24690 |
| .899 | 2.083 | -.35600 | .19010 | .26960 |
| .903 | 3.156 | -.35200 | .17060 | .30200 |
| .898 | 4.212 | -.35600 | .14040 | .32450 |
| .901 | 6.279 | -.36200 | .09410 | .37960 |
| .902 | 7.317 | -.35570 | .07210 | .40980 |
| | GRADIENT | -.00350 | -.02646 | .02479 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

AMES 118-1-11 OAI45A 01

(E2F018) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 5.000
ELEVON = .000
AILRON = .000
SPOBRK = 25.000
RUDDER = .000
RN/L = 5.000

RUN NO. 432/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|--------|---------|--------|
| 1.100 | -6.205 | -35930 | .53950 | .21510 |
| 1.101 | -2.066 | -35350 | .44850 | .30720 |
| 1.100 | -1.019 | -34950 | .42200 | .33360 |
| 1.102 | .042 | -34900 | .39880 | .35590 |
| 1.100 | .561 | -34580 | .38820 | .37050 |
| 1.100 | 1.092 | -34620 | .37340 | .37870 |
| 1.101 | 2.139 | -34070 | .35080 | .40630 |
| 1.100 | 3.176 | -33830 | .33160 | .43530 |
| 1.101 | 4.219 | -34240 | .31100 | .45950 |
| 1.100 | 6.313 | -34670 | .27570 | .51780 |
| | GRADIENT | .00217 | -.02186 | .02421 |

RUN NO. 163/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|--------|
| 1.201 | -6.143 | -32500 | .56430 | .28060 |
| 1.201 | -1.971 | -31910 | .47250 | .33920 |
| 1.199 | -.924 | -31510 | .44940 | .36010 |
| 1.201 | .136 | -31470 | .42760 | .38560 |
| 1.201 | .645 | -31460 | .41900 | .39830 |
| 1.200 | 1.181 | -31710 | .40880 | .41080 |
| 1.199 | 2.242 | -31780 | .38830 | .43490 |
| 1.200 | 3.296 | -31210 | .37210 | .46440 |
| 1.197 | 4.341 | -31990 | .35870 | .48640 |
| 1.198 | 6.419 | -32150 | .33020 | .54040 |
| | GRADIENT | -.00001 | -.01813 | .02373 |

RUN NO. 134/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|--------|---------|--------|
| 1.298 | -6.125 | -34150 | .56410 | .34000 |
| 1.302 | -1.969 | -33070 | .48930 | .39960 |
| 1.302 | -.919 | -32710 | .47590 | .40280 |
| 1.301 | .133 | -32530 | .45880 | .40910 |
| 1.301 | .642 | -32410 | .44840 | .41730 |
| 1.300 | 1.209 | -31860 | .43760 | .42850 |
| 1.300 | 2.280 | -32160 | .41460 | .44850 |
| 1.300 | 3.341 | -31980 | .40090 | .46840 |
| 1.300 | 4.389 | -31660 | .39170 | .49260 |
| 1.299 | 6.468 | -31060 | .36060 | .54290 |
| | GRADIENT | .00204 | -.01639 | .01527 |

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OAI45 TABULATED FORCE DATA

(E2FY18) (05 MAR 80)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

ALPHA =
 AILRON =
 SPDBRK =
 RN/L =

5.000 ELEVON = .000
 .000 BDFLAP = .000
 25.000 RUDDER = .000
 5.000

RUN NO. 153/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|--------|
| 1.399 | -6.136 | -.31590 | .59190 | .36420 |
| 1.405 | -1.979 | -.31780 | .50870 | .43450 |
| 1.404 | -.928 | -.31540 | .49860 | .44630 |
| 1.403 | .014 | -.31590 | .49160 | .45600 |
| 1.402 | .578 | -.31670 | .49270 | .46240 |
| 1.401 | 1.100 | -.31590 | .48440 | .46520 |
| 1.401 | 2.185 | -.31660 | .46670 | .47580 |
| 1.400 | 3.270 | -.31880 | .44420 | .49560 |
| 1.401 | 4.335 | -.31140 | .42430 | .51890 |
| 1.399 | 6.452 | -.30740 | .36800 | .56340 |
| | GRADIENT | .00041 | -.01333 | .01263 |

AMES 118-1-11 OAI45A 01

(E2FY18) (24 AUG 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

ALPHA =
 AILRON =
 SPDBRK =
 RN/L =

5.000 ELEVON = .000
 .000 BDFLAP = .000
 25.000 RUDDER = .000
 5.000

RUN NO. 0/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .598 | -6.033 | -.21270 | -.21310 | -.21530 | -.21310 | -.23250 | -.23250 | -.24100 | -.25720 | .30210 | -.00740 |
| .599 | -1.887 | -.20600 | -.20220 | -.20320 | -.20170 | -.23050 | -.23050 | -.23980 | -.25830 | .20460 | .09320 |
| .598 | -.865 | -.20240 | -.19980 | -.20480 | -.20340 | -.22910 | -.22910 | -.24070 | -.25590 | .18020 | .11850 |
| .599 | .086 | -.20610 | -.20470 | -.20540 | -.20850 | -.23540 | -.23540 | -.24430 | -.26140 | .15340 | .13870 |
| .599 | .559 | -.20570 | -.20460 | -.20410 | -.20530 | -.22790 | -.22790 | -.24300 | -.25930 | .14580 | .15770 |
| .599 | 1.066 | -.19960 | -.20080 | -.19670 | -.20100 | -.23190 | -.23190 | -.23830 | -.25370 | .13240 | .16750 |
| .599 | 2.135 | -.20270 | -.20250 | -.20550 | -.20340 | -.23290 | -.23290 | -.24050 | -.25870 | .10960 | .19630 |
| .599 | 3.191 | -.20780 | -.20290 | -.20640 | -.20380 | -.23220 | -.23220 | -.23980 | -.26200 | .08570 | .24440 |
| .599 | 4.263 | -.21490 | -.21160 | -.21320 | -.21840 | -.23770 | -.23770 | -.24690 | -.26940 | .05860 | .24570 |
| .599 | 6.350 | -.21600 | -.21980 | -.21290 | -.21390 | -.23600 | -.23600 | -.25000 | -.27200 | .00420 | .29960 |
| | GRADIENT | -.00121 | -.00111 | -.00120 | -.00162 | -.00096 | -.00096 | -.00053 | -.00152 | -.02344 | .02535 |

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OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(EEFY18) (24 AUG 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|---------|---------|---------|--------|---------|--------|
| .798 | -6.048 | -21840 | -22100 | -22120 | -22050 | -23390 | -23390 | -24770 | -26140 | -34170 | .02150 |
| .797 | -1.851 | -21350 | -21060 | -21020 | -20780 | -24190 | -24190 | -25060 | -26650 | -23460 | .12770 |
| .799 | -.778 | -20180 | -20560 | -20670 | -20560 | -24020 | -24020 | -25060 | -26300 | -21590 | .15740 |
| .798 | .076 | -20810 | -21330 | -20910 | -20740 | -24520 | -24520 | -25540 | -26260 | -19420 | .17460 |
| .797 | .451 | -21410 | -21450 | -21660 | -21410 | -24380 | -24380 | -25720 | -27250 | -18880 | .18540 |
| .798 | .976 | -21010 | -20610 | -21440 | -20930 | -24160 | -24160 | -25310 | -26250 | -17490 | .20050 |
| .799 | 2.072 | -21010 | -21410 | -20970 | -21390 | -24220 | -24220 | -25930 | -27420 | -14553 | .22860 |
| .798 | 3.141 | -21460 | -21330 | -21590 | -21650 | -24500 | -24500 | -25560 | -27450 | -12000 | .25520 |
| .798 | 4.196 | -36820 | -14190 | .02260 | .06690 | -24690 | -24690 | -25890 | .00000 | .04380 | .28100 |
| .798 | 6.262 | -22530 | -22210 | -22210 | -22380 | -25650 | -25650 | -25970 | -28420 | .04380 | .33120 |
| | GRADIENT | .06368 | .00715 | .02540 | .02970 | -.00076 | -.00076 | -.00146 | .02856 | -.02403 | .02539 |

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|---------|---------|---------|---------|--------|--------|--------|--------|---------|--------|
| 1.298 | -6.125 | -31960 | -32090 | -32090 | -32100 | -34150 | -34150 | -34400 | -34670 | -56410 | .34000 |
| 1.302 | -1.969 | -30550 | -30750 | -30820 | -30630 | -33070 | -33070 | -33390 | -33640 | -48930 | .39960 |
| 1.302 | -.919 | -30430 | -30310 | -30320 | -30350 | -32710 | -32710 | -33040 | -33500 | -40280 | .40280 |
| 1.301 | .133 | -30670 | -30570 | -30730 | -30880 | -32530 | -32530 | -32570 | -33140 | -45880 | .40910 |
| 1.301 | .642 | -30530 | -30560 | -30470 | -30530 | -32410 | -32410 | -32690 | -33010 | -44840 | .41730 |
| 1.300 | 1.209 | -30350 | -30330 | -30450 | -30350 | -31860 | -31860 | -32270 | -33020 | -43760 | .42850 |
| 1.300 | 2.280 | -30670 | -30810 | -30640 | -30850 | -32160 | -32160 | -32550 | -32790 | -41460 | .44850 |
| 1.300 | 3.341 | -31330 | -31210 | -31020 | -31210 | -31980 | -31980 | -32430 | -32580 | -40090 | .46840 |
| 1.300 | 4.389 | -31160 | -30960 | -30770 | -30730 | -31660 | -31660 | -31920 | -32140 | -39170 | .49260 |
| 1.300 | 6.488 | -30640 | -30780 | -30850 | -30840 | -31060 | -31060 | -31670 | -32090 | -36060 | .54290 |
| | GRADIENT | -.00124 | -.00091 | -.00042 | -.00089 | .00204 | .00204 | .00190 | .00223 | -.01839 | .01827 |

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 1.399 | -6.136 | -30690 | -30930 | -30920 | -30810 | -31590 | -31590 | -32100 | -32040 | -59190 | .36420 |
| 1.405 | -1.979 | -30780 | -30730 | -30790 | -30860 | -31780 | -31780 | -32050 | -32150 | -50870 | .43450 |
| 1.404 | -.928 | -30610 | -30740 | -30740 | -30670 | -31540 | -31540 | -31740 | -31700 | -49860 | .44630 |
| 1.403 | .014 | -30610 | -30740 | -30700 | -30660 | -31590 | -31590 | -32000 | -32180 | -49160 | .45600 |
| 1.402 | .578 | -30550 | -30610 | -30780 | -30660 | -31670 | -31670 | -32000 | -32070 | -48270 | .46240 |
| 1.401 | 1.100 | -30730 | -30750 | -30730 | -30760 | -31590 | -31590 | -31620 | -31760 | -48440 | .46520 |
| 1.401 | 2.185 | -30780 | -30900 | -30900 | -30840 | -31660 | -31660 | -31970 | -32610 | -46670 | .47580 |
| 1.400 | 3.270 | -30670 | -30630 | -30700 | -30590 | -31880 | -31880 | -32520 | -32520 | -44420 | .49560 |
| 1.401 | 4.335 | -30390 | -30680 | -30730 | -30550 | -31140 | -31140 | -32080 | -31730 | -44230 | .51890 |
| 1.399 | 6.452 | -29990 | -29750 | -30030 | -30090 | -30740 | -30740 | -31790 | -31630 | -36800 | .56340 |
| | GRADIENT | .00028 | .00005 | .00002 | .00030 | .00041 | .00041 | .00000 | -.00027 | -.01333 | .01263 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01(-TO+)

(E2F019) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = .25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 179/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH

BETA

CP225
 -23050
 -22400
 -22360
 -23540
 -22590
 -23320
 -23080
 -23170
 -25000
 -25810
 -00334

CP228

CP231

CP234

CP237

CP240

CP243

CP246

CP12

CP13

GRADIENT

RUN NO. 123/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH

BETA

CP225
 -25810
 -24770
 -23970
 -23630
 -23570
 -24310
 -24250
 -23580
 -24020
 -25560
 -27430
 -00062

CP228

CP231

CP234

CP237

CP240

CP243

CP246

CP12

CP13

GRADIENT

DATE 10 MAR 80
OAI45 TABULATED FORCE DATA
AMES 11E-1-11 OAI45A 01(+TO-)

(EZF020) (16 JUL 77)

PARAMETRIC DATA

ALPHA =
AILRON =
SPDBRK =
RN/L =

5.000 ELEVON = .000
.000 BOFLAP = .000
25.000 RUDDER = .000
5.000

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

RUN NO. 180/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .900 | -6.091 | -23910 | -23580 | -23960 | -23260 | -32510 | -32510 | -33500 | -33920 | -39250 | .06090 |
| .901 | -3.997 | -22650 | -22650 | -22590 | -22360 | -32920 | -32920 | -32580 | -34250 | -34350 | .11670 |
| .902 | -2.930 | -22300 | -22510 | -22610 | -22880 | -32250 | -32250 | -32910 | -34780 | -32020 | .14600 |
| .900 | -1.856 | -22890 | -22980 | -22840 | -22520 | -32800 | -32800 | -32580 | -34300 | -29280 | .16950 |
| .903 | -.796 | -22640 | -22330 | -22830 | -22720 | -32190 | -32190 | -33070 | -33740 | -26790 | .20020 |
| .902 | .052 | -22270 | -22460 | -22360 | -22310 | -32580 | -32580 | -33400 | -33380 | -24420 | .22090 |
| .904 | .486 | -22060 | -22470 | -21570 | -22270 | -32960 | -32960 | -32650 | -32620 | -23430 | .23280 |
| .901 | 1.020 | -23120 | -23440 | -23150 | -23260 | -34040 | -34040 | -33620 | -34310 | -22040 | .24240 |
| .901 | 2.102 | -24410 | -24430 | -23380 | -23390 | -32840 | -32840 | -32390 | -32800 | -19820 | .27360 |
| .904 | 3.175 | -24110 | -24410 | -24310 | -24310 | -33990 | -33990 | -33720 | -34170 | -17100 | .30060 |
| .901 | 4.226 | -24110 | -24130 | -24350 | -24260 | -34680 | -34680 | -34350 | -32840 | -15000 | .32600 |
| GRADIENT | | -00177 | -00176 | -00148 | -00209 | -00209 | -00209 | -00106 | -00198 | -02361 | .02547 |

RUN NO. 124/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .951 | -6.061 | -25670 | -25840 | -25870 | -26300 | -35530 | -35530 | -36700 | -37810 | -41590 | .09490 |
| .950 | -3.970 | -23670 | -24250 | -24180 | -24180 | -33070 | -33070 | -34010 | -34010 | -36650 | .15060 |
| .952 | -2.940 | -23550 | -24330 | -24250 | -24000 | -32510 | -32510 | -33320 | -33990 | -34050 | .17690 |
| .951 | -1.893 | -23350 | -23540 | -23680 | -23270 | -32340 | -32340 | -33220 | -33750 | -31720 | .20060 |
| .951 | -.891 | -23690 | -23920 | -23740 | -23440 | -33030 | -33030 | -33820 | -34710 | -29470 | .22690 |
| .951 | .156 | -23870 | -24150 | -23870 | -24550 | -33810 | -33810 | -34490 | -35100 | -27070 | .25140 |
| .951 | .689 | -24030 | -24280 | -24030 | -23880 | -33400 | -33400 | -34740 | -35040 | -26330 | .26520 |
| .951 | 1.226 | -24030 | -24130 | -24080 | -23570 | -33970 | -33970 | -34690 | -35270 | -25400 | .27990 |
| .952 | 2.307 | -23610 | -23980 | -23490 | -23680 | -33990 | -33990 | -34830 | -35030 | -22440 | .30900 |
| .951 | 3.368 | -24570 | -24870 | -24750 | -24340 | -34630 | -34630 | -35300 | -35570 | -19720 | .33610 |
| .951 | 4.417 | -26260 | -26500 | -26420 | -26430 | -36430 | -36430 | -37380 | -37920 | -17040 | .35550 |
| .953 | 6.448 | -27520 | -28140 | -27650 | -27420 | -36900 | -36900 | -38410 | -40440 | -12590 | .40620 |
| GRADIENT | | -00228 | -00233 | -00212 | -00134 | -00363 | -00363 | -00374 | -00372 | -02285 | .02487 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(E2F021) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = .000
AILRON = .000
SPOBRK = 25.000
RN/L = 3.000
ELEVON = .000
BDFLAP = .000
RUDDER = .000

RUN NO. 270/ 0 RN/L = 2.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .602 | -5.994 | -.22710 | .29880 | -.01910 |
| .601 | -1.969 | -.22740 | .20920 | .07380 |
| .601 | -.962 | -.22760 | .18090 | .09850 |
| .600 | .083 | -.22880 | .15850 | .12460 |
| .600 | .584 | -.22770 | .14740 | .13780 |
| .601 | 1.070 | -.22710 | .13540 | .14900 |
| .600 | 2.072 | -.22620 | .11490 | .17350 |
| .600 | 3.079 | -.22860 | .08620 | .19760 |
| .600 | 4.092 | -.22970 | .06230 | .22000 |
| .599 | 6.136 | -.22750 | .01680 | .27290 |
| | GRADIENT | -.00023 | -.02385 | .02425 |

RUN NO. 271/ 0 RN/L = 2.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .802 | -5.999 | -.24880 | .35160 | .01570 |
| .801 | -1.979 | -.25090 | .24830 | .11060 |
| .802 | -.962 | -.24700 | .22800 | .13980 |
| .802 | .088 | -.25120 | .19990 | .16370 |
| .802 | .607 | -.24310 | .19090 | .18310 |
| .801 | 1.084 | -.24860 | .17710 | .19140 |
| .801 | 2.083 | -.25420 | .14890 | .21360 |
| .799 | 3.094 | -.26060 | .12450 | .23530 |
| .802 | 4.112 | -.25210 | .10810 | .26680 |
| .799 | 6.163 | -.26410 | .05590 | .31220 |
| | GRADIENT | -.00131 | -.02396 | .02491 |

RUN NO. 279/ 0 RN/L = 2.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .897 | -6.030 | -.29590 | .39860 | .05710 |
| .898 | -1.885 | -.29980 | .29470 | .15960 |
| .899 | -.840 | -.29930 | .27370 | .18860 |
| .898 | .030 | -.30120 | .24840 | .20860 |
| .897 | .428 | -.30410 | .23820 | .21840 |
| .895 | .936 | -.29890 | .22820 | .23450 |
| .897 | 2.014 | -.30080 | .20180 | .25980 |
| .898 | 3.073 | -.30590 | .17580 | .28680 |
| .897 | 4.110 | -.30440 | .15130 | .31130 |
| .893 | 6.162 | -.31450 | .11030 | .36630 |
| | GRADIENT | -.00091 | -.02415 | .02529 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(E2F021) (06 MAR 80)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 ELEVON = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BDFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDBRK = 25.000 RUDDER = .000
 SCALE = .0500 RN/L = 3.000

RUN NO. 281/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH BETA CP240 CP12 CP13
 .947 -6.034 .33020 .42450 .09180
 .948 -1.886 .34380 .32700 .19260
 .949 .839 .34800 .30250 .21990
 .947 .028 .35030 .28110 .24210
 .947 .426 .35690 .26730 .24830
 .945 .934 .36020 .25600 .26000
 .947 2.021 .36790 .23230 .28820
 .945 3.080 .36770 .20610 .31510
 .945 4.114 .38190 .18480 .34010
 .947 6.197 .40030 .13680 .39050
 GRADIENT .00614 .02391 .02444

(E2F022) (16 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 ELEVON = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BDFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDBRK = 25.000 RUDDER = .000
 SCALE = .0500 RN/L = 9.000

RUN NO. 336/ 0 RN/L = 6.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH BETA CP225 CP228 CP231 CP234 CP237 CP240 CP243 CP12 CP13
 .597 -6.091 .21670 .21920 .21790 .21870 .22880 .28420 .01540
 .597 -1.921 .21040 .21040 .21100 .20950 .22520 .18460 .08090
 .597 .853 .20800 .20710 .20880 .20950 .22260 .25480 .10930
 .597 .048 .20740 .21110 .20870 .20700 .22260 .24990 .12770
 .597 .443 .21170 .20830 .20650 .20780 .22480 .25340 .13530
 .597 .987 .21150 .21100 .21260 .21020 .22520 .25850 .14810
 .597 2.081 .21320 .20950 .20900 .20860 .22840 .25910 .17140
 .597 3.141 .21220 .21150 .21140 .21510 .22820 .23090 .19830
 .596 5.220 .22470 .22170 .22050 .22280 .23220 .24330 .24670
 .596 6.258 .21490 .21720 .22120 .22370 .22840 .25950 .27450
 GRADIENT .00080 .00036 .00020 .00100 .00102 .00102 .00047 .02353 .02266

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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(E2F022) (16 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDRK = 25.000 RUDDER = .000
 RN/L = 9.000

RUN NO. 339/ 0 RN/L = 7.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| .800 | -6.290 | -22150 | -22430 | -21780 | -22310 | -24690 | -24690 | -25670 | -27470 | .32890 | .01610 |
| .800 | -1.966 | -20900 | -20940 | -20720 | -20910 | -24620 | -24620 | -25740 | -27320 | .23240 | .11780 |
| .800 | -.874 | -20960 | -20660 | -21250 | -21030 | -24380 | -24380 | -25520 | -27780 | .20290 | .14520 |
| .800 | .044 | -20840 | -21200 | -20910 | -20920 | -24110 | -24110 | -24630 | -26840 | .17670 | .16580 |
| .800 | .456 | -21520 | -20860 | -21180 | -21390 | -24190 | -24190 | -25270 | -27360 | .17230 | .17550 |
| .799 | 1.021 | -21750 | -21850 | -21530 | -21580 | -24600 | -24600 | -25940 | -27200 | .15990 | .18650 |
| .799 | 2.132 | -21440 | -21600 | -21790 | -21680 | -24080 | -24080 | -26080 | -27510 | .13420 | .21700 |
| .799 | 3.204 | -21770 | -21690 | -22000 | -21740 | -24950 | -24950 | -26380 | -28620 | .10320 | .23850 |
| .799 | 4.263 | -22180 | -21500 | -22380 | -21810 | -25340 | -25340 | -26550 | -28520 | .08110 | .26330 |
| .798 | 6.380 | -22760 | -23080 | -23310 | -23260 | -25920 | -25920 | -26590 | -28330 | .03070 | .31640 |
| GRADIENT | | -.00204 | -.00148 | -.00258 | -.00166 | -.00121 | -.00121 | -.00204 | -.00214 | -.02406 | .02331 |

RUN NO. 383/ 0 RN/L = 8.70 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| .901 | -6.290 | -23720 | -23430 | -23420 | -23400 | -30200 | -30200 | -29960 | -30730 | .37720 | .04560 |
| .900 | -2.099 | -21660 | -22630 | -22230 | -22460 | -30030 | -30030 | -29990 | -30480 | .27980 | .14940 |
| .899 | -1.041 | -22590 | -22460 | -22240 | -22240 | -29930 | -29930 | -30990 | -31280 | .25500 | .17700 |
| .899 | .024 | -22350 | -22250 | -22940 | -22510 | -31340 | -31340 | -31410 | -32010 | .26650 | .20140 |
| .900 | .679 | -23130 | -22530 | -23340 | -22880 | -31890 | -31890 | -32360 | -33180 | .21770 | .21770 |
| .898 | 1.217 | -22430 | -22320 | -23140 | -22800 | -31560 | -31560 | -32680 | -33020 | .20250 | .23310 |
| .899 | 2.240 | -24040 | -23230 | -23610 | -23660 | -31910 | -31910 | -33030 | -33630 | .18100 | .25910 |
| .897 | 3.292 | -25060 | -25080 | -24350 | -25150 | -33020 | -33020 | -34870 | -34040 | .14790 | .28120 |
| .898 | 4.360 | -25540 | -24530 | -25200 | -24630 | -33570 | -33570 | -33540 | -35470 | .13130 | .30890 |
| .897 | 6.503 | -27170 | -26870 | -26450 | -27240 | -35720 | -35720 | -35470 | -36340 | .07860 | .36220 |
| GRADIENT | | -.00601 | -.00402 | -.00453 | -.00451 | -.00567 | -.00567 | -.00659 | -.00723 | -.02329 | .02462 |

RUN NO. 341/ 0 RN/L = 8.88 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| .954 | -6.299 | -26130 | -25980 | -26300 | -25710 | -32100 | -32100 | -33100 | -33700 | .40650 | .08920 |
| .952 | -2.041 | -22960 | -23320 | -23190 | -23380 | -31480 | -31480 | -32330 | -33080 | .30990 | .18980 |
| .952 | -.951 | -24420 | -23790 | -23890 | -24310 | -32190 | -32190 | -33060 | -33370 | .28360 | .21510 |
| .952 | .155 | -24610 | -24430 | -24320 | -24800 | -32120 | -32120 | -32880 | -34460 | .26030 | .24460 |
| .953 | .669 | -24010 | -24090 | -23800 | -24420 | -32920 | -32920 | -33630 | -34590 | .24810 | .25630 |
| .952 | 1.230 | -24490 | -24070 | -23760 | -24350 | -32790 | -32790 | -33610 | -34880 | .23550 | .27010 |
| .951 | 2.331 | -24660 | -24380 | -24830 | -24350 | -33980 | -33980 | -35160 | -35980 | .20960 | .29370 |
| .951 | 3.408 | -24640 | -24600 | -24810 | -25000 | -34300 | -34300 | -35720 | -35940 | .18590 | .32180 |
| .951 | 4.484 | -26310 | -26720 | -25850 | -26260 | -35890 | -35890 | -37060 | -37910 | .16090 | .34620 |
| .951 | 6.620 | -28370 | -28090 | -28560 | -27690 | -36840 | -36840 | -38560 | -40720 | .11690 | .40350 |
| GRADIENT | | -.00351 | -.00388 | -.00345 | -.00313 | -.00629 | -.00629 | -.00718 | -.00705 | -.02275 | .02400 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

AMES 118-1-11 OAI45A 01

(E2F023) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 187/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | |
|------|----------|---------|---------|---------|
| MACH | BETA | CP240 | CP12 | CP13 |
| .600 | -6.003 | -.26390 | .35340 | -.00940 |
| .600 | -1.940 | -.25490 | .24250 | .10380 |
| .600 | -.918 | -.25520 | .20720 | .12910 |
| .598 | .099 | -.25990 | .17990 | .15650 |
| .600 | .615 | -.26110 | .16680 | .17130 |
| .599 | 1.133 | -.25780 | .15170 | .18710 |
| .600 | 2.162 | -.25280 | .12720 | .22310 |
| .598 | 3.201 | -.26810 | .09230 | .24570 |
| .600 | 4.239 | -.26020 | .07040 | .28020 |
| | 6.328 | -.26310 | .00500 | .34310 |
| | GRADIENT | -.00115 | -.02768 | .02879 |

RUN NO. 115/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | |
|------|----------|---------|---------|--------|
| MACH | BETA | CP240 | CP12 | CP13 |
| .799 | -5.998 | -.29310 | .38450 | .02630 |
| .797 | -1.892 | -.30750 | .27570 | .13400 |
| .799 | -.886 | -.30930 | .25300 | .16670 |
| .798 | .124 | -.30370 | .22810 | .20110 |
| .799 | .614 | -.30690 | .21530 | .21170 |
| .797 | 1.106 | -.31450 | .19330 | .22660 |
| .797 | 2.124 | -.30880 | .17160 | .25900 |
| .799 | 3.144 | -.30670 | .14260 | .29300 |
| .799 | 4.187 | -.30630 | .11290 | .32340 |
| .797 | 6.268 | -.31540 | .05750 | .38110 |
| | GRADIENT | .00012 | -.02713 | .03107 |

RUN NO. 173/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | |
|------|----------|---------|---------|--------|
| MACH | BETA | CP240 | CP12 | CP13 |
| .901 | -6.069 | -.33230 | .45380 | .07150 |
| .902 | -1.939 | -.32030 | .34290 | .19130 |
| .901 | -.923 | -.35430 | .30980 | .22140 |
| .901 | .098 | -.35310 | .28070 | .25340 |
| .903 | .590 | -.35040 | .26930 | .27120 |
| .900 | 1.085 | -.35390 | .25220 | .27940 |
| .901 | 2.106 | -.35270 | .22830 | .31620 |
| .902 | 3.131 | -.34530 | .20310 | .35110 |
| .901 | 4.175 | -.35940 | .17110 | .37580 |
| .899 | 6.260 | -.37400 | .10690 | .43360 |
| | GRADIENT | -.00342 | -.02745 | .03073 |

(E2F023) (06 MAR 80)

DATE 10 MAR 80
OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA =
AIIIRON =
SPOBRK =
RN/L =
10.000 ELEVON =
.000 BDFLAP =
25.000 RUDDER =
5.000

RUN NO. 126/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .950 | -6.057 | -.36560 | .46260 | .09510 |
| .950 | -1.908 | -.38580 | .35850 | .21130 |
| .951 | -.892 | -.38940 | .33830 | .24230 |
| .952 | .155 | -.39240 | .31410 | .27590 |
| .950 | .662 | -.39210 | .29960 | .28830 |
| .951 | 1.190 | -.39080 | .28240 | .30400 |
| .950 | 2.235 | -.39460 | .24790 | .33450 |
| .950 | 3.295 | -.39500 | .21980 | .36570 |
| .951 | 4.341 | -.39090 | .19720 | .39900 |
| .951 | 6.451 | -.38090 | .14860 | .46130 |
| | GRADIENT | -.00096 | -.02704 | .02975 |

RUN NO. 164/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|--------|
| 1.199 | -6.086 | -.33570 | .60970 | .28340 |
| 1.202 | -1.958 | -.32490 | .50770 | .33740 |
| 1.200 | -.941 | -.32630 | .48250 | .36620 |
| 1.199 | .086 | -.32430 | .44960 | .39380 |
| 1.197 | .581 | -.33220 | .43390 | .40630 |
| 1.197 | 1.077 | -.32330 | .42250 | .42290 |
| 1.200 | 2.105 | -.32580 | .39960 | .45550 |
| 1.200 | 3.133 | -.32850 | .37920 | .48740 |
| 1.199 | 4.184 | -.33310 | .35950 | .51490 |
| 1.196 | 6.277 | -.33120 | .33010 | .57640 |
| | GRADIENT | -.00098 | -.02440 | .02932 |

RUN NO. 135/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|--------|
| 1.297 | -6.075 | -.34490 | .59460 | .34200 |
| 1.303 | -1.927 | -.34600 | .50710 | .38480 |
| 1.302 | -.912 | -.34640 | .48850 | .39310 |
| 1.299 | .113 | -.34860 | .47390 | .40430 |
| 1.298 | .599 | -.35110 | .46480 | .41270 |
| 1.298 | 1.106 | -.35030 | .45130 | .42450 |
| 1.298 | 2.138 | -.34710 | .42460 | .45050 |
| 1.297 | 3.176 | -.34840 | .40780 | .47720 |
| 1.296 | 4.223 | -.34670 | .40010 | .50730 |
| 1.294 | 6.320 | -.33080 | .38940 | .56910 |
| | GRADIENT | -.00010 | -.01862 | .02051 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

(E2F023) (06 MAR 80)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = .000
AILRON = .000
SPDBRK = .000
RN/L = .000
ELEVON = .000
BDFLAP = .000
RUDDER = .000

RUN NO. 156/ 0 RN/L = 5.09 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|--------|---------|--------|
| 1.400 | -6.122 | -31860 | .62500 | .38030 |
| 1.404 | -1.964 | -32900 | .54050 | .44830 |
| 1.404 | -.942 | -32990 | .53020 | .46060 |
| 1.404 | .087 | -33740 | .50780 | .47000 |
| 1.403 | .580 | -33820 | .49990 | .47220 |
| 1.404 | 1.083 | -33480 | .49510 | .47720 |
| 1.403 | 2.119 | -33160 | .48600 | .48810 |
| 1.403 | 3.151 | -32920 | .46880 | .50820 |
| 1.403 | 4.211 | -32720 | .45410 | .53550 |
| 1.401 | 6.320 | -32520 | .32530 | .58580 |
| | GRADIENT | .00055 | -.01397 | .01314 |

AMES 118-1-11 0A145A 01

(E2FY23) (19 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = .000
AILRON = .000
SPDBRK = .000
RN/L = .000
ELEVON = .000
BDFLAP = .000
RUDDER = .000

RUN NO. 0/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .600 | -6.003 | -.21800 | -.21680 | -.21280 | -.21830 | -.26390 | -.26390 | -.28530 | -.31480 | .35340 | -.00940 |
| .600 | -1.940 | -.20310 | -.20380 | -.20190 | -.20280 | -.25490 | -.25490 | -.27800 | -.30740 | .24250 | .10380 |
| .600 | -.918 | -.19940 | -.19840 | -.20790 | -.20430 | -.25520 | -.25520 | -.27460 | -.29960 | .20720 | .12910 |
| .598 | .099 | -.20730 | -.20800 | -.20770 | -.20580 | -.25990 | -.25990 | -.27840 | -.30590 | .17990 | .15650 |
| .600 | .615 | -.20340 | -.20410 | -.20480 | -.20950 | -.26110 | -.26110 | -.28350 | -.30410 | .16680 | .17130 |
| .599 | 1.133 | -.20550 | -.20380 | -.20070 | -.20020 | -.25780 | -.25780 | -.27720 | -.30440 | .15170 | .18710 |
| .600 | 2.162 | -.19840 | -.20390 | -.20250 | -.19560 | -.25280 | -.25280 | -.27100 | -.29960 | .12720 | .22310 |
| .598 | 3.201 | -.21150 | -.21390 | -.21680 | -.21860 | -.26810 | -.26810 | -.28210 | -.31070 | .09230 | .24570 |
| .600 | 4.239 | -.20530 | -.20720 | -.21340 | -.20720 | -.26020 | -.26020 | -.28520 | -.30910 | .07040 | .28020 |
| .600 | 6.328 | -.22330 | -.22560 | -.22000 | -.21850 | -.26310 | -.26310 | -.28480 | -.32160 | .00500 | .34310 |
| | GRADIENT | -.00077 | -.00130 | -.00166 | -.00102 | -.00115 | -.00115 | -.00093 | -.00074 | -.02768 | .02879 |

DATE 10 MAR 80

OAI145 TABULATED FORCE DATA

AMES 118-1-11 OAI145A 01

(E2FY23) (19 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = 0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 0/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.297 | -6.075 | -32750 | -32940 | -33120 | -32890 | -34490 | -34490 | -34340 | -34700 | 59460 | 34200 |
| 1.303 | -1.927 | -32640 | -32810 | -32730 | -32780 | -34600 | -34600 | -34680 | -35120 | 50710 | 38480 |
| 1.309 | -.912 | -32530 | -32650 | -32650 | -32650 | -34640 | -34640 | -34760 | -35070 | 48850 | 39310 |
| 1.299 | .113 | -32780 | -32750 | -33000 | -32780 | -34860 | -34860 | -35050 | -35370 | 47390 | 40430 |
| 1.298 | .599 | -32730 | -32950 | -32950 | -32870 | -35110 | -35110 | -35350 | -35600 | 46480 | 41270 |
| 1.298 | 1.106 | -32630 | -32790 | -32780 | -32680 | -35030 | -35030 | -35020 | -35320 | 45130 | 42450 |
| 1.298 | 2.138 | -32870 | -32900 | -33110 | -32800 | -34710 | -34710 | -34780 | -34880 | 42460 | 45050 |
| 1.297 | 3.176 | -33500 | -33460 | -33580 | -33510 | -34840 | -34840 | -34890 | -35270 | 40780 | 47720 |
| 1.296 | 4.223 | -33300 | -33360 | -33430 | -33650 | -34670 | -34670 | -34910 | -35160 | 40010 | 50730 |
| 1.294 | 6.320 | -31810 | -32200 | -32150 | -32570 | -33080 | -33080 | -33460 | -33830 | 38940 | 56910 |
| | GRADIENT | -00142 | -00119 | -00143 | -00169 | -00810 | -00010 | -00016 | .00002 | -01862 | .02051 |

RUN NO. 0/ 0 RN/L = 5.09 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.400 | -6.122 | -31720 | -31740 | -31780 | -31780 | -31860 | -31860 | -32030 | -32200 | 62500 | 38030 |
| 1.404 | -1.964 | -32310 | -32320 | -32400 | -32390 | -32900 | -32900 | -33240 | -33140 | 54050 | 44830 |
| 1.404 | -.942 | -32560 | -32500 | -32430 | -32590 | -32990 | -32990 | -33580 | -33570 | 53020 | 46060 |
| 1.404 | .087 | -32830 | -32880 | -32860 | -32820 | -33740 | -33740 | -33630 | -33660 | 50780 | 47000 |
| 1.403 | .580 | -32780 | -32920 | -32910 | -32950 | -33820 | -33820 | -33740 | -34170 | 49990 | 47220 |
| 1.403 | 1.083 | -32600 | -32640 | -32760 | -32670 | -33480 | -33480 | -33890 | -34030 | 49510 | 47720 |
| 1.403 | 2.119 | -32590 | -32750 | -32660 | -32590 | -33160 | -33160 | -33260 | -33600 | 48600 | 48810 |
| 1.403 | 3.151 | -32700 | -32730 | -32780 | -32760 | -32920 | -32920 | -33330 | -33740 | 46880 | 50820 |
| 1.403 | 4.211 | -32400 | -32370 | -32340 | -32450 | -32720 | -32720 | -33130 | -33130 | 45410 | 53550 |
| 1.401 | 6.320 | -31930 | -31860 | -31930 | -31950 | -32520 | -32520 | -32590 | -32860 | 32530 | 58580 |
| | GRADIENT | -00007 | -00011 | -00006 | -00005 | .00055 | .00055 | .00046 | .00002 | -01397 | .01314 |

OAI45 TABULATED FORCE DATA

AMES 118-1-11 OAI45A 01

DATE 10 MAR 80

(E2F024) (06 MAR 80)

REFERENCE DATA

SREF = 2690.000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = .000
AILRON = .000
SPDBRK = 25.000
RN/L = 5.000
ELEVON = .000
BDFLAP = .000
RUDDER = .000

RUN NO. 188/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .598 | -6.041 | -.31980 | .35250 | -.07820 |
| .597 | -1.949 | -.32990 | .21350 | .06030 |
| .600 | -.915 | -.32170 | .18690 | .10210 |
| .599 | .123 | -.32180 | .15180 | .13370 |
| .600 | .645 | -.32510 | .13650 | .14810 |
| .600 | 1.171 | -.32190 | .12270 | .16810 |
| .599 | 2.234 | -.32170 | .08980 | .20450 |
| .600 | 3.272 | -.32070 | .05310 | .23920 |
| .600 | 4.312 | -.31370 | .02790 | .27440 |
| .600 | 6.411 | -.31340 | -.04590 | .33850 |
| | GRADIENT | .00177 | -.03028 | .03378 |

RUN NO. 116/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .800 | -6.072 | -.37610 | .42330 | -.01600 |
| .796 | -1.922 | -.40510 | .28680 | .12330 |
| .797 | -.895 | -.41480 | .25630 | .15950 |
| .799 | .156 | -.42030 | .22300 | .18940 |
| .797 | .669 | -.42350 | .20520 | .20450 |
| .799 | 1.177 | -.41830 | .19160 | .22410 |
| .798 | 2.219 | -.42010 | .16040 | .25870 |
| .799 | 3.259 | -.41810 | .12590 | .29190 |
| .798 | 4.303 | -.40980 | .09190 | .32750 |
| .799 | 6.384 | -.40260 | .02300 | .39140 |
| | GRADIENT | -.00057 | -.03124 | .03291 |

RUN NO. 174/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .900 | -6.119 | -.41000 | .46850 | .02440 |
| .899 | -1.953 | -.42940 | .33530 | .17150 |
| .900 | -.906 | -.42720 | .30480 | .21200 |
| .901 | .146 | -.40890 | .27320 | .24590 |
| .902 | .654 | -.43610 | .25650 | .25910 |
| .901 | 1.169 | -.41110 | .24530 | .27950 |
| .900 | 2.197 | -.44970 | .21120 | .31120 |
| .901 | 3.240 | -.43930 | .18180 | .34860 |
| .901 | 4.292 | -.44560 | .14730 | .38030 |
| .900 | 6.377 | -.45860 | .08140 | .44650 |
| | GRADIENT | -.00377 | -.02996 | .03322 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(E2F024) (06 MAR 80)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = .000
AIIIRON = .000
SPDBRK = 25.000
RUDDER = 5.000
ELEVON = .000
BDFLAP = .000

RUN NO. 127/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .950 | -6.074 | -.42160 | .49970 | .06750 |
| .951 | -1.933 | -.43420 | .37480 | .20530 |
| .951 | -.850 | -.43700 | .34160 | .24060 |
| .953 | .188 | -.44620 | .31070 | .27440 |
| .951 | .700 | -.45040 | .29350 | .28830 |
| .951 | 1.228 | -.45890 | .27580 | .30420 |
| .951 | 2.303 | -.46020 | .24440 | .33980 |
| .952 | 3.359 | -.45550 | .21880 | .37530 |
| .952 | 4.412 | -.46140 | .18420 | .40890 |
| .951 | 6.520 | -.45890 | .12210 | .47090 |
| | GRADIENT | -.00444 | -.02987 | .03200 |

RUN NO. 165/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|--------|
| 1.198 | -6.152 | -.31930 | .62680 | .28220 |
| 1.200 | -2.007 | -.33930 | .51120 | .33340 |
| 1.199 | -.958 | -.34390 | .48130 | .36370 |
| 1.199 | .103 | -.34830 | .45140 | .39330 |
| 1.199 | .624 | -.34640 | .43780 | .41000 |
| 1.200 | 1.139 | -.34480 | .42460 | .42540 |
| 1.198 | 2.178 | -.33840 | .39560 | .45960 |
| 1.200 | 3.227 | -.33380 | .37690 | .49600 |
| 1.199 | 4.286 | -.33180 | .35420 | .52690 |
| 1.197 | 6.372 | -.33150 | .31080 | .59210 |
| | GRADIENT | .00187 | -.02504 | .03112 |

RUN NO. 137/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|--------|
| 1.296 | -6.143 | -.34270 | .63380 | .35050 |
| 1.299 | -1.995 | -.36350 | .52580 | .39120 |
| 1.298 | -.930 | -.36340 | .50000 | .40060 |
| 1.298 | .130 | -.36300 | .47710 | .41380 |
| 1.298 | .653 | -.36100 | .46760 | .42490 |
| 1.298 | 1.177 | -.36170 | .45500 | .43560 |
| 1.298 | 2.208 | -.35500 | .43350 | .46400 |
| 1.298 | 3.258 | -.34620 | .41840 | .49330 |
| 1.297 | 4.320 | -.34510 | .41560 | .52380 |
| 1.296 | 6.411 | -.33900 | .37650 | .58600 |
| | GRADIENT | .00335 | -.01824 | .02168 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1687

AMES 118-1-11 0A145A 01

(E2FY24) (19 JUL 77)

REFERENCE DATA

| | | | | | | | | | | |
|---|-------|---|-----------|--------|---|------|---|-----------|-----|----|
| = | SREF | = | 2690.0000 | SQ.FT. | = | XMRP | = | 1076.6800 | IN. | XO |
| = | LREF | = | 474.8100 | INCHES | = | YMRP | = | .0000 | IN. | YO |
| = | BREF | = | 936.6800 | INCHES | = | ZMRP | = | 375.0000 | IN. | ZO |
| = | SCALE | = | .0500 | | | | | | | |

ALPHA
A ILRON
SPDBRK
RN/L

| | | | |
|--------|--------|---|------|
| 15.000 | ELEVON | = | .000 |
| .000 | BDFLAP | = | .000 |
| 25.000 | RUDDER | = | .000 |
| 5.000 | | | |

PARAMETRIC DATA

| | BETA | RUN NO. | 0/ 0 | RN/L = | 4.99 | GRADIENT INTERVAL = | -5.00/ | 5.00 | CP246 | CP12 | CP13 |
|----------|--------|---------|--------|--------|--------|---------------------|--------|--------|--------|---------|---------|
| MACH | | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | | | |
| .598 | -6.041 | -22760 | -22520 | -22690 | -22950 | -31980 | -31980 | -32450 | -33510 | .35250 | -.07820 |
| .597 | -1.949 | -23540 | -23710 | -23430 | -24250 | -32990 | -32990 | -33760 | -34680 | .21350 | .06030 |
| .600 | - | -22840 | -22770 | -22940 | -23120 | -32170 | -32170 | -32940 | -34650 | .18680 | .10210 |
| .599 | .123 | -23210 | -23000 | -23380 | -23120 | -32180 | -32180 | -33900 | -34810 | .15180 | .13370 |
| .600 | .645 | -22750 | -23120 | -22820 | -23590 | -32510 | -32510 | -33610 | -34380 | .13650 | .14810 |
| .600 | 1.171 | -23310 | -23030 | -23030 | -22820 | -32190 | -32190 | -33460 | -33780 | .12270 | .16810 |
| .599 | 2.234 | -23370 | -23280 | -23510 | -23090 | -32170 | -32170 | -32990 | -34160 | .08980 | .20450 |
| .600 | 3.272 | -23030 | -22930 | -22750 | -22580 | -32070 | -32070 | -32750 | -33240 | .05310 | .23920 |
| .600 | 4.312 | -23290 | -22510 | -22400 | -22580 | -31370 | -31370 | -32420 | -33220 | .02790 | .27440 |
| .600 | 6.411 | -23290 | -22400 | -22940 | -23190 | -31340 | -31340 | -32250 | -33610 | -.04590 | .33950 |
| GRADIENT | .00097 | .00103 | .00109 | .00215 | .00177 | .00177 | .00177 | .00187 | .00271 | -.03028 | .03378 |

| | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|---------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| MACH | | | | | | | | | | | |
| .800 | -6.072 | -25040 | -24750 | -25400 | -25300 | -37610 | -37610 | -38680 | -38670 | .42330 | -.01600 |
| .806 | -1.922 | -26520 | -26480 | -26730 | -26540 | -40510 | -40510 | -40780 | -40960 | .28680 | .12330 |
| .796 | | -26260 | -26960 | -27130 | -26780 | -41480 | -41480 | -41610 | -42460 | .25630 | .15550 |
| .797 | -.835 | -26330 | -26540 | -26900 | -26670 | -42030 | -42030 | -42140 | -42540 | .22300 | .18940 |
| .799 | .155 | -26900 | -27810 | -27600 | -26900 | -42350 | -42350 | -42070 | -43350 | .20520 | .20450 |
| .797 | .669 | -26900 | -27100 | -27120 | -26950 | -41830 | -41830 | -42490 | -43150 | .19160 | .22410 |
| .799 | 1.177 | -26980 | -26980 | -27320 | -27490 | -42010 | -42010 | -42880 | -43540 | .16040 | .25870 |
| .798 | 2.219 | -26960 | -27220 | -27320 | -27490 | -41810 | -41810 | -42530 | -43580 | .12590 | .29190 |
| .799 | 3.259 | -27370 | -26370 | -26520 | -26960 | -40980 | -40980 | -41870 | -43790 | .09190 | .32750 |
| .798 | 4.303 | -26900 | -26710 | -26430 | -26430 | -40260 | -40260 | -40430 | -41460 | .02300 | .39140 |
| .799 | 6.384 | -25990 | -26310 | -26840 | -25460 | -40057 | -40057 | -40019 | -40039 | -.03124 | .03291 |
| GRADIENT | | -.00134 | .00010 | .00069 | -.00120 | -.00057 | -.00057 | -.00199 | -.00393 | | |

| MACH | BETA | RUN NO. | 0 / 0 | RN/L = | 4.98 | GRADIENT | INTERVAL = | -5.00/ | 5.00 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|---------|--------|--------|--------|----------|------------|--------|------|--------|-------|---------|--------|
| | | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | | | | | | |
| .900 | -6.119 | -28290 | -28390 | -28390 | -28420 | -41000 | -41000 | | | -35210 | | .46850 | .02440 |
| .899 | -1.953 | -30170 | -29550 | -29190 | -29960 | -42940 | -42940 | | | -42360 | | .33530 | .17150 |
| .900 | -.906 | -29130 | -29740 | -29500 | -29490 | -42720 | -42720 | | | -41570 | | .30480 | .21200 |
| .901 | .146 | -28770 | -28810 | -29080 | -28450 | -40890 | -40890 | | | -38390 | | .27320 | .24590 |
| .902 | .654 | -30060 | -29140 | -28210 | -29270 | -43610 | -43610 | | | -37670 | | .25650 | .25910 |
| .901 | 1.169 | -29200 | -29170 | -29660 | -29650 | -41110 | -41110 | | | -41240 | | .24530 | .27950 |
| .900 | 2.197 | -29100 | -29280 | -29830 | -29680 | -44970 | -44970 | | | -37010 | | .21120 | .31120 |
| .901 | 3.240 | -30230 | -30090 | -30260 | -29920 | -43930 | -43930 | | | -37520 | | .18180 | .34860 |
| .901 | 4.292 | -29770 | -30260 | -29290 | -30160 | -44560 | -44560 | | | -45450 | | .14730 | .38030 |
| | 6.377 | -30330 | -29200 | -29900 | -30260 | -45860 | -45860 | | | -37450 | | .08140 | .44650 |
| GRADIENT | | -00036 | -00119 | -00107 | -00096 | -00377 | -00377 | | | -00036 | | -.02996 | .03322 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

(E2FY24) (19 JUL 77)

AMES 118-1-11 0A145A 01

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 15.000 ELEVON = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BDFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDRK = 25.000 RUDDER = .000
 SCALE = .0500 RN/L = 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| .950 | -6.074 | -29720 | -29640 | -29650 | -29540 | -42160 | -42160 | -41600 | -43100 | .49970 | .06750 |
| .951 | -1.933 | -30320 | -29950 | -30170 | -30750 | -43420 | -43420 | -44030 | -45160 | .37480 | .20530 |
| .951 | -.850 | -30130 | -30280 | -30510 | -30750 | -43700 | -43700 | -44890 | -45850 | .34160 | .24060 |
| .953 | .188 | -30940 | -31090 | -31240 | -30990 | -44620 | -44620 | -45300 | -46320 | .31070 | .27440 |
| .951 | .700 | -31140 | -31920 | -31680 | -31700 | -45040 | -45040 | -45370 | -45940 | .29350 | .28630 |
| .951 | 1.228 | -31590 | -31210 | -30780 | -31260 | -45890 | -45890 | -46990 | -47270 | .27580 | .30420 |
| .951 | 2.303 | -31520 | -31240 | -31340 | -31690 | -46020 | -46020 | -46630 | -47310 | .24440 | .33980 |
| .952 | 3.359 | -31150 | -31030 | -31450 | -30360 | -45550 | -45550 | -46860 | -46340 | .21880 | .37530 |
| .952 | 4.412 | -30200 | -30680 | -30390 | -30910 | -46140 | -46140 | -47280 | -48160 | .18420 | .40890 |
| .951 | 6.520 | -31280 | -30810 | -31210 | -31840 | -46890 | -46890 | -47250 | -48130 | .12210 | .47090 |
| GRADIENT | | -30071 | -00111 | -00076 | -00044 | -00444 | -00444 | -00513 | -00378 | -.02987 | .03200 |

RUN NO. 0/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 0/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| 1.296 | -6.143 | -32540 | -32810 | -32950 | -33010 | -34270 | -34270 | -34340 | -34560 | .63380 | .35050 |
| 1.299 | -1.995 | -35200 | -35380 | -35310 | -35410 | -36350 | -36350 | -36540 | -36950 | .52580 | .39120 |
| 1.298 | -.930 | -35640 | -35630 | -35630 | -35460 | -36340 | -36340 | -36540 | -36970 | .50000 | .40060 |
| 1.298 | .130 | -35690 | -35810 | -35830 | -35630 | -36300 | -36300 | -36800 | -36880 | .47710 | .41380 |
| 1.298 | .653 | -35440 | -35620 | -35640 | -35730 | -36100 | -36100 | -36460 | -36650 | .46760 | .42490 |
| 1.298 | 1.177 | -35350 | -35500 | -35530 | -35470 | -36170 | -36170 | -36350 | -36370 | .45500 | .43560 |
| 1.298 | 2.208 | -34680 | -34860 | -34680 | -34790 | -35500 | -35500 | -35780 | -36030 | .43350 | .48400 |
| 1.298 | 3.258 | -33790 | -33860 | -33890 | -33920 | -34620 | -34620 | -34820 | -35030 | .41840 | .49330 |
| 1.297 | 4.320 | -33570 | -33680 | -33580 | -33650 | -34510 | -34510 | -34780 | -34960 | .41560 | .52380 |
| 1.296 | 6.411 | -32910 | -32840 | -32970 | -33020 | -33900 | -33900 | -33900 | -34290 | .37650 | .58600 |
| GRADIENT | | -00332 | -00333 | -00341 | -00322 | -00335 | -00335 | -00336 | -00368 | -.01824 | .02168 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

(E2F025) (16 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 13.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 157/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1.392 | -.3240 | -.32190 | -.32340 | -.32450 | -.32130 | -.32130 | -.33400 | -.33320 | -.65000 | -.37590 |
| 1.397 | -.3350 | -.33550 | -.33520 | -.33460 | -.33690 | -.33690 | -.33920 | -.34540 | -.54670 | -.45110 |
| 1.397 | -.33760 | -.33830 | -.33770 | -.33750 | -.33860 | -.33860 | -.34540 | -.34680 | -.52550 | -.46110 |
| 1.397 | -.33840 | -.33920 | -.33930 | -.33860 | -.33540 | -.33540 | -.34410 | -.35030 | -.51100 | -.47100 |
| 1.395 | -.33760 | -.33800 | -.33800 | -.33930 | -.33610 | -.33610 | -.34550 | -.34850 | -.50280 | -.47620 |
| 1.395 | -.33440 | -.33710 | -.33680 | -.33720 | -.33550 | -.33550 | -.33990 | -.34740 | -.49390 | -.48100 |
| 1.395 | -.33370 | -.33240 | -.33380 | -.33380 | -.33460 | -.33460 | -.33930 | -.34470 | -.47370 | -.49660 |
| 1.394 | -.33000 | -.33000 | -.33130 | -.33340 | -.33440 | -.33440 | -.33690 | -.34210 | -.44160 | -.52020 |
| 1.394 | -.32840 | -.32640 | -.32780 | -.32800 | -.33530 | -.33530 | -.33860 | -.33300 | -.39900 | -.54580 |
| 1.391 | -.32260 | -.32460 | -.32310 | -.32190 | -.31970 | -.31970 | -.33680 | -.33300 | -.38280 | -.60710 |
| GRADIENT | .00141 | .00178 | .00143 | .00133 | .00048 | .00048 | .00092 | .00125 | -.02225 | .01471 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = 5.000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

(E2F026) (16 JUL 77)

RUN NO. 69/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | CF225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .598 | -.9.863 | -.22260 | -.22310 | -.22360 | -.26110 | -.26110 | -.27280 | -.27260 | -.20290 | -.19480 |
| .598 | -.5.015 | -.21990 | -.21870 | -.21940 | -.24060 | -.24060 | -.23710 | -.23990 | -.04780 | -.04390 |
| .598 | -.021 | -.21970 | -.22260 | -.21780 | -.25650 | -.25650 | -.26030 | -.26390 | .07400 | .05680 |
| .598 | 2.519 | -.21970 | -.22330 | -.22590 | -.27970 | -.27970 | -.28180 | -.29560 | .11580 | .10190 |
| .598 | 5.021 | -.22400 | -.22260 | -.22310 | -.29690 | -.29690 | -.30880 | -.33020 | .15830 | .13210 |
| .598 | 7.063 | -.22190 | -.21600 | -.21390 | -.30320 | -.30320 | -.32600 | -.35080 | .17420 | .14830 |
| .598 | 8.086 | -.21770 | -.21980 | -.22010 | -.31470 | -.31470 | -.33590 | -.36470 | .17870 | .14900 |
| .598 | 10.136 | -.22690 | -.22790 | -.21980 | -.32330 | -.32330 | -.34880 | -.38480 | .17990 | .14930 |
| .598 | 12.192 | -.22150 | -.23120 | -.23290 | -.33980 | -.33980 | -.36150 | -.39780 | .18110 | .15270 |
| .597 | 15.243 | -.25460 | -.25980 | -.25650 | -.39420 | -.39420 | -.40390 | -.41710 | .16000 | .12700 |
| .598 | 20.019 | -.31040 | -.31250 | -.31400 | -.49720 | -.49720 | -.50270 | -.50960 | .09600 | .06490 |
| GRADIENT | -.00335 | .00000 | -.00028 | -.00319 | -.00914 | -.00914 | -.00847 | -.01248 | .01646 | .01776 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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(E2F026) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = 5.000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 109/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .798 | -9.932 | -26010 | -25320 | -25640 | -25410 | -26450 | -26450 | -33620 | -34010 | -12100 | -10000 |
| .800 | -4.646 | -23510 | -23430 | -23170 | -23360 | -20700 | -20700 | -25830 | -26000 | -21900 | -2880 |
| .800 | .324 | -23670 | -23210 | -23370 | -23690 | -21330 | -21330 | -27270 | -27980 | -12790 | -12000 |
| .797 | 2.855 | -23220 | -23410 | -23090 | -23240 | -23690 | -23690 | -29140 | -30910 | -16470 | -15320 |
| .797 | 5.456 | -22690 | -22960 | -22710 | -22790 | -25740 | -25740 | -32020 | -32230 | -19790 | -17870 |
| .797 | 8.518 | -23920 | -23840 | -23350 | -23090 | -26900 | -26900 | -33840 | -34410 | -21390 | -19260 |
| .798 | 10.550 | -23700 | -24780 | -24440 | -24970 | -28210 | -28210 | -34900 | -35600 | -23090 | -20050 |
| .797 | 12.645 | -27450 | -26310 | -26390 | -27280 | -31340 | -31340 | -39200 | -40140 | -23800 | -20400 |
| .795 | 15.708 | -30930 | -32030 | -31740 | -32140 | -40510 | -40510 | -45500 | -46080 | -21380 | -18300 |
| .797 | 20.481 | -33060 | -33800 | -33800 | -34120 | -41230 | -41230 | -49170 | -49350 | -17480 | -14050 |
| GRADIENT | | .00029 | .00008 | .00004 | .00005 | .00361 | .00361 | .00420 | .00619 | .01935 | .01683 |

RUN NO. 92/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .900 | -4.753 | -26260 | -26400 | -26020 | -26610 | -31420 | -31420 | -30910 | -31540 | -28500 | -28940 |
| .901 | .260 | -25010 | -25190 | -25070 | -24870 | -30790 | -30790 | -31340 | -32330 | -17790 | -16900 |
| .900 | 2.782 | -25250 | -24570 | -24760 | -25150 | -34700 | -34700 | -34010 | -34980 | -20900 | -19330 |
| .900 | 5.343 | -25330 | -25240 | -25500 | -25210 | -34240 | -34240 | -35460 | -36080 | -24960 | -22010 |
| .899 | 8.390 | -26390 | -26070 | -26320 | -26310 | -37100 | -37100 | -37340 | -37840 | -26680 | -23580 |
| .901 | 10.472 | -26320 | -26170 | -26430 | -27330 | -36750 | -36750 | -37640 | -37880 | -28260 | -24710 |
| .900 | 12.528 | -28120 | -28330 | -28380 | -28620 | -39970 | -39970 | -39860 | -40050 | -28160 | -24430 |
| .899 | 15.566 | -32280 | -32400 | -32280 | -32620 | -45440 | -45440 | -46850 | -47130 | -27180 | -23530 |
| .889 | 20.657 | -37650 | -38010 | -38060 | -37250 | -49220 | -49220 | -50510 | -50870 | -22550 | -18710 |
| GRADIENT | | .00150 | .00243 | .00170 | .00215 | .00356 | .00356 | .00365 | .00414 | .01675 | .01408 |

RUN NO. 64/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| .950 | -9.854 | -30840 | -31000 | -30990 | -31120 | -42860 | -42860 | -43210 | -43180 | -20330 | -205720 |
| .949 | -4.990 | -30400 | -30150 | -30370 | -30280 | -43160 | -43160 | -43670 | -44270 | -12500 | -12830 |
| .951 | .022 | -29560 | -29530 | -29630 | -28830 | -43160 | -43160 | -43580 | -44260 | -20990 | -19100 |
| .951 | 2.578 | -30590 | -30260 | -30110 | -30440 | -43250 | -43250 | -43220 | -44480 | -23980 | -21520 |
| .950 | 5.080 | -27420 | -28070 | -28360 | -28210 | -37610 | -37610 | -38390 | -38960 | -27660 | -24030 |
| .951 | 7.150 | -27140 | -28070 | -27160 | -27360 | -37630 | -37630 | -38150 | -37980 | -29000 | -25030 |
| .951 | 8.182 | -28780 | -27690 | -28290 | -27790 | -39740 | -39740 | -39800 | -40280 | -29430 | -25240 |
| .951 | 10.250 | -28570 | -28720 | -28540 | -29300 | -40590 | -40590 | -41060 | -41190 | -30580 | -26110 |
| .952 | 12.294 | -30290 | -29770 | -29890 | -30070 | -42470 | -42470 | -43010 | -44150 | -30950 | -26400 |
| .951 | 15.387 | -33420 | -33420 | -33420 | -32300 | -46350 | -46350 | -47080 | -47800 | -30190 | -25670 |
| .950 | 20.707 | -37280 | -37330 | -37660 | -37580 | -47880 | -47880 | -48900 | -49710 | -26820 | -21760 |
| GRADIENT | | .00002 | .00005 | .00050 | .00022 | .00010 | .00010 | .00054 | .00024 | .01542 | .01163 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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(E2F026) (16 JUL 77)

AXES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = 5.000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 244/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.050 | -5.833 | -31690 | -32010 | -31780 | -31880 | -33730 | -33730 | -32540 | -31690 | -24750 | -25530 |
| 1.052 | -8.12 | -31620 | -31760 | -31450 | -32030 | -32600 | -32600 | -32090 | -32410 | -33610 | -31350 |
| 1.051 | 1.752 | -32460 | -32420 | -32030 | -32570 | -33910 | -33910 | -33290 | -33550 | -35690 | -33350 |
| 1.051 | 4.265 | -33170 | -33160 | -33300 | -33220 | -34390 | -34390 | -34240 | -34040 | -38040 | -34830 |
| 1.046 | 6.512 | -33090 | -33490 | -34050 | -33760 | -34810 | -34810 | -34640 | -34770 | -39970 | -35720 |
| 1.050 | 7.383 | -34200 | -33550 | -33750 | -34070 | -34590 | -34590 | -34420 | -35450 | -40460 | -36330 |
| 1.047 | 9.491 | -34300 | -34520 | -33880 | -34530 | -34590 | -34590 | -33860 | -35160 | -40880 | -36500 |
| 1.045 | 11.294 | -34690 | -34960 | -35060 | -35100 | -36130 | -36130 | -34760 | -35040 | -41280 | -36510 |
| 1.049 | 14.582 | -37140 | -36570 | -37310 | -37620 | -39040 | -39040 | -37870 | -38550 | -41390 | -36120 |
| GRADIENT | | -30305 | -30276 | -30364 | -30234 | -30353 | -30353 | -30424 | -30321 | -30872 | -30685 |

RUN NO. 242/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.103 | -4.248 | -31840 | -31860 | -31760 | -31430 | -32610 | -32610 | -33000 | -32920 | -31240 | -31220 |
| 1.103 | -8.09 | -31330 | -31400 | -31540 | -31570 | -32400 | -32400 | -32460 | -31790 | -35940 | -34140 |
| 1.100 | 1.747 | -31400 | -31840 | -31750 | -32100 | -32960 | -32960 | -32920 | -32870 | -3870 | -35750 |
| 1.095 | 4.269 | -33550 | -33600 | -33630 | -33520 | -34070 | -34070 | -34020 | -34130 | -40510 | -36880 |
| 1.101 | 6.342 | -34190 | -34120 | -34090 | -34400 | -34530 | -34530 | -34220 | -34790 | -42040 | -37860 |
| 1.100 | 7.339 | -34280 | -34380 | -34230 | -34380 | -34580 | -34580 | -34860 | -35560 | -43000 | -38360 |
| 1.100 | 9.412 | -34850 | -35060 | -34880 | -35150 | -35210 | -35210 | -35640 | -35700 | -43280 | -38830 |
| 1.100 | 11.500 | -36430 | -36280 | -36220 | -36550 | -36640 | -36640 | -37100 | -36160 | -43280 | -37970 |
| 1.100 | 14.559 | -37530 | -37340 | -37960 | -37570 | -38330 | -38330 | -38950 | -39610 | -43620 | -37780 |
| GRADIENT | | -30370 | -30188 | -30195 | -30234 | -30167 | -30167 | -30115 | -30151 | -30175 | -30669 |

RUN NO. 86/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|
| 1.202 | -4.788 | -30640 | -30800 | -30770 | -30840 | -31060 | -31060 | -31620 | -32200 | -33860 | -35630 |
| 1.203 | 1.150 | -30680 | -30770 | -30750 | -30820 | -32020 | -32020 | -32310 | -32570 | -38570 | -36600 |
| 1.200 | 2.676 | -31690 | -31670 | -31600 | -31720 | -33780 | -33780 | -33940 | -34130 | -39980 | -36670 |
| 1.198 | 5.197 | -32420 | -33160 | -32870 | -32740 | -34700 | -34700 | -35140 | -35450 | -42400 | -37340 |
| 1.198 | 8.297 | -33340 | -33800 | -33500 | -33770 | -35940 | -35940 | -36040 | -36260 | -43710 | -37710 |
| 1.198 | 10.368 | -33490 | -33860 | -33780 | -33560 | -36140 | -36140 | -36560 | -36530 | -43570 | -38200 |
| 1.198 | 12.435 | -32930 | -33160 | -33170 | -33370 | -35440 | -35440 | -35280 | -35040 | -44380 | -38320 |
| 1.197 | 15.535 | -34060 | -34390 | -34480 | -34550 | -36190 | -36190 | -36310 | -36650 | -44430 | -38110 |
| 1.197 | 20.517 | -36430 | -36620 | -36580 | -36710 | -38610 | -38610 | -38770 | -39170 | -42540 | -36970 |
| GRADIENT | | -300122 | -300100 | -300095 | -300101 | -300341 | -300341 | -300287 | -300233 | -30038 | -300147 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

AMES 118-1-11 OAI45A 01

(E2F028) (18 JUL 77)

PARAMETRIC DATA

BETA = .000
ELEVON = 5.000
AILRON = .000
BOFLAP = .000
SPDBRK = 25.000
RUDDER = 5.000
RN/L =

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500
XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

RUN NO. 74/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.294 | -9.978 | -28490 | -28590 | -28520 | -28760 | -28990 | -28990 | -29380 | -29750 | -35250 | -38240 |
| 1.302 | -5.113 | -28860 | -29010 | -28910 | -28840 | -30350 | -30350 | -30710 | -31770 | -38020 | -39340 |
| 1.301 | -.095 | -29300 | -29300 | -29190 | -29290 | -31030 | -31030 | -30950 | -31650 | -40770 | -39930 |
| 1.296 | 2.465 | -30340 | -30680 | -30660 | -30140 | -32980 | -32980 | -33170 | -33930 | -43430 | -40010 |
| 1.295 | 4.992 | -32230 | -31940 | -32140 | -32180 | -35090 | -35090 | -35370 | -35930 | -45150 | -39400 |
| 1.295 | 7.034 | -32910 | -32960 | -33210 | -32990 | -36150 | -36150 | -36590 | -36920 | -46000 | -39300 |
| 1.295 | 8.077 | -33380 | -33480 | -33530 | -33460 | -36430 | -36430 | -36470 | -37060 | -46330 | -39200 |
| 1.295 | 10.156 | -34210 | -34370 | -34340 | -34600 | -36940 | -36940 | -37210 | -37750 | -46950 | -39340 |
| 1.293 | 12.229 | -34360 | -34620 | -34650 | -34590 | -36490 | -36490 | -36670 | -36950 | -46900 | -39570 |
| 1.292 | 15.342 | -35000 | -35160 | -35040 | -35080 | -36160 | -36160 | -36270 | -36490 | -47420 | -40200 |
| 1.294 | 20.321 | -32530 | -32720 | -32710 | -32720 | -33840 | -33840 | -33960 | -34280 | -46490 | -40180 |
| 1.286 | GRADIENT | -00576 | -00519 | -00580 | -00568 | -00798 | -00798 | -00869 | -00861 | -00861 | -00104 |

RUN NO. 149/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.402 | -4.968 | -28150 | -28100 | -28210 | -28190 | -29470 | -29470 | -31620 | -31650 | -40080 | -43260 |
| 1.403 | .234 | -30070 | -30190 | -30160 | -30320 | -31360 | -31360 | -32400 | -32500 | -44470 | -45660 |
| 1.402 | 2.800 | -30940 | -31060 | -31100 | -31100 | -32220 | -32220 | -32650 | -32650 | -46200 | -45840 |
| 1.403 | 5.322 | -31480 | -31740 | -31790 | -31660 | -32130 | -32130 | -32980 | -32760 | -50340 | -45900 |
| 1.404 | 6.349 | -31830 | -31900 | -31860 | -31910 | -32090 | -32090 | -33440 | -33230 | -49130 | -46180 |
| 1.404 | 7.366 | -31890 | -31990 | -32080 | -31950 | -32220 | -32220 | -33750 | -33550 | -49190 | -46510 |
| 1.404 | 8.410 | -32110 | -32180 | -32080 | -32200 | -32320 | -32320 | -33460 | -34380 | -49360 | -46780 |
| 1.404 | 9.455 | -32250 | -32350 | -32400 | -32450 | -32120 | -32120 | -33410 | -33890 | -50430 | -46540 |
| 1.402 | GRADIENT | -00361 | -00384 | -00372 | -00380 | -00355 | -00355 | -00135 | -00134 | -00796 | -00351 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

(E2F027) (06 MAR 80)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETA =
AILRON =
SPDBRK =
RN/L =
ELEVON = 10.000
BDFLAP = .000
RUDDER = .000
25.000
5.000

RUN NO. 72/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .597 | -9.884 | -.30970 | -.21290 | -.20270 |
| .598 | -5.011 | -.29360 | -.04910 | -.04310 |
| .597 | -.014 | -.32740 | .07440 | .06200 |
| .597 | 2.519 | -.35700 | .11550 | .10490 |
| .598 | 5.004 | -.37750 | .15600 | .13410 |
| .598 | 7.068 | -.37460 | .17390 | .14780 |
| .598 | 8.104 | -.38320 | .17990 | .15190 |
| .598 | 10.130 | -.39910 | .18320 | .15320 |
| .598 | 12.195 | -.42700 | .18580 | .15450 |
| .598 | 15.250 | -.45240 | .15900 | .12260 |
| .597 | 20.133 | -.55340 | .08850 | .05990 |
| | GRADIENT | -.01169 | .01623 | .01694 |

RUN NO. 108/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .800 | -10.080 | -.31130 | -.12470 | -.10240 |
| .804 | -4.823 | -.21840 | .01910 | .02690 |
| .798 | .184 | -.27040 | .12170 | .11860 |
| .799 | 2.664 | -.27190 | .16810 | .15090 |
| .798 | 5.255 | -.31880 | .19400 | .17700 |
| .802 | 8.396 | -.31590 | .22090 | .20030 |
| .799 | 10.442 | -.33110 | .23150 | .19960 |
| .798 | 12.484 | -.35950 | .23120 | .19780 |
| .797 | 15.570 | -.40640 | .22270 | .18900 |
| .791 | 20.487 | -.45270 | .16890 | .13170 |
| | GRADIENT | -.00762 | .01999 | .01682 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

(E2F027) (06 MAR 80)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETA = .000
ALIRON = .000
SPDBRK = 25.000
RUDDER = 5.000
ELEVON = 10.000
BDFLAP = .000

RUN NO. 100/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .901 | -10.262 | -.47470 | -.03660 | -.00420 |
| .902 | -5.022 | -.30270 | .08470 | .09200 |
| .903 | -.062 | -.33810 | .17460 | .16950 |
| .898 | 2.510 | -.39040 | .20760 | .19320 |
| .899 | 5.025 | -.39070 | .23790 | .21960 |
| .900 | 7.111 | -.37060 | .25570 | .23680 |
| .901 | 8.122 | -.37240 | .26340 | .24110 |
| .901 | 10.215 | -.38250 | .28530 | .24760 |
| .900 | 12.292 | -.41110 | .28370 | .24820 |
| .900 | 15.302 | -.46300 | .27930 | .24110 |
| .900 | 20.346 | -.47990 | .24450 | .20350 |
| | GRADIENT | -.02034 | .01283 | .00921 |

RUN NO. 66/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|--------|--------|
| .951 | -9.876 | -.45980 | .03180 | .05880 |
| .953 | -5.006 | -.39540 | .13210 | .13550 |
| .951 | .023 | -.37850 | .21670 | .19810 |
| .952 | 2.580 | -.41420 | .25010 | .22820 |
| .949 | 5.074 | -.36430 | .28180 | .24650 |
| .948 | 7.152 | -.35470 | .29720 | .25780 |
| .951 | 8.172 | -.36930 | .30650 | .26510 |
| .950 | 10.234 | -.39480 | .31400 | .27050 |
| .951 | 12.319 | -.41520 | .31630 | .27030 |
| .949 | 15.411 | -.44040 | .31170 | .26420 |
| .951 | 20.846 | -.46080 | .28070 | .23070 |
| | GRADIENT | -.01396 | .01306 | .01177 |

(E2F027) (06 MAR 80)

AMES 118-1-11 00145A 01

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

BETA = .000 ELEVON = 10.000
AILRON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

| RUN NO. 247/ 0 | | RN/L = 5.01 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|--------|-------------|--------|---------------------------------|--------|
| MACH | | ALPHA | | CP12 | |
| 1.051 | -5.807 | CP240 | CP13 | CP12 | CP13 |
| 1.059 | -1.646 | -3.3220 | .25090 | .33280 | .31060 |
| 1.047 | 1.739 | -3.1120 | .32900 | .35310 | .32900 |
| 1.050 | 4.307 | -3.3830 | .38090 | .34980 | .36130 |
| 1.050 | 6.332 | -3.3520 | .40030 | .36130 | .36470 |
| 1.050 | 7.375 | -3.4160 | .40570 | .37090 | .36790 |
| 1.051 | 9.444 | -3.4680 | .41260 | .37990 | .35980 |
| 1.049 | 11.509 | -3.5110 | .41520 | .41130 | .00653 |
| 1.048 | 14.580 | -3.5420 | .41130 | .00797 | |
| GRADIENT | | -3.00424 | | | |

| RUN NO. 243/ 0 | | RN/L = 5.00 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|--------|---------------------------------|--------|
| MACH | | ALPHA | | CP12 | |
| 1.100 | -5.820 | CP240 | CP13 | CP12 | CP13 |
| 1.103 | -8.000 | -3.35210 | .28870 | .35900 | .34090 |
| 1.100 | 1.763 | -3.4070 | .37960 | .37960 | .35600 |
| 1.099 | 4.271 | -3.3090 | .40140 | .40140 | .36680 |
| 1.101 | 6.350 | -3.33970 | .41960 | .37750 | .37960 |
| 1.099 | 7.353 | -3.4350 | .42140 | .38730 | .38400 |
| 1.100 | 9.428 | -3.4850 | .43170 | .37830 | .00511 |
| 1.099 | 11.500 | -3.4930 | .43480 | | |
| 1.099 | 14.580 | -3.4980 | .43320 | | |
| 1.100 | GRADIENT | -3.37120 | .00836 | | |

| RUN NO. 87/ 0 | | RN/L = 5.03 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|---------------|----------|-------------|--------|---------------------------------|--------|
| MACH | | ALPHA | | CP12 | |
| 1.198 | -4.239 | CP240 | CP13 | CP12 | CP13 |
| 1.200 | .183 | -3.1650 | .34190 | .35600 | .36580 |
| 1.196 | 2.689 | -3.1510 | .38600 | .36780 | .37690 |
| 1.198 | 5.209 | -3.3250 | .39940 | .38080 | .38240 |
| 1.199 | 8.315 | -3.3010 | .42600 | .38100 | .37990 |
| 1.199 | 10.379 | -3.3470 | .44480 | .42640 | .00176 |
| 1.195 | 12.472 | -3.3540 | .44410 | | |
| 1.196 | 15.566 | -3.3020 | .44240 | | |
| 1.195 | 20.592 | -3.4790 | .42640 | | |
| 1.185 | GRADIENT | -3.6890 | .00849 | | |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

PAGE 1676

(E2F027) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = 10.000
AILLRON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 73/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|-------|----------|---------|--------|--------|
| 1.298 | -9.944 | -30620 | .35490 | .37770 |
| 1.296 | -5.057 | -31710 | .37500 | .36850 |
| 1.297 | -013 | -31810 | .40350 | .39590 |
| 1.296 | 2.544 | -32660 | .43420 | .40140 |
| 1.295 | 5.037 | -33150 | .44930 | .39750 |
| 1.295 | 7.115 | -33290 | .45920 | .39170 |
| 1.296 | 8.161 | -33310 | .46420 | .39170 |
| 1.296 | 10.207 | -33090 | .47070 | .39400 |
| 1.295 | 12.302 | -33770 | .46930 | .39760 |
| 1.294 | 15.384 | -33550 | .47420 | .40190 |
| 1.281 | 20.334 | -32060 | .46100 | .39900 |
| | GRADIENT | -.00333 | .01201 | .00215 |

RUN NO. 150/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|-------|----------|---------|--------|--------|
| 1.402 | -4.954 | -30870 | .40100 | .43270 |
| 1.404 | .224 | -32040 | .44770 | .45610 |
| 1.403 | 2.777 | -32630 | .46160 | .46030 |
| 1.403 | 5.314 | -31340 | .48620 | .45840 |
| 1.403 | 6.299 | -31040 | .49170 | .46290 |
| 1.402 | 7.405 | -31390 | .49120 | .46540 |
| 1.402 | 8.391 | -30220 | .49370 | .46490 |
| 1.399 | 9.439 | -30930 | .50390 | .46310 |
| | GRADIENT | -.00227 | .00801 | .00371 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

PAGE 1677
(E2FY27) (19 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

BETA =
AILRON =
SPDBRK =
RN/L =

.000 ELEVON = 10.000
.000 BDFLAP = .000
25.000 RUDDER = .000
5.000

PARAMETRIC DATA

RUN NO. 0/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .597 | -9.884 | -24850 | -25200 | -24630 | -25160 | -30970 | -30970 | -30950 | -31480 | -21290 | -20270 |
| .598 | -5.011 | -25040 | -25090 | -25210 | -25110 | -29360 | -29360 | -29070 | -29150 | -04910 | -04310 |
| .597 | -0.014 | -24860 | -24840 | -24910 | -24770 | -32740 | -32740 | -32720 | -33600 | 07440 | 06200 |
| .597 | 2.519 | -25650 | -25530 | -25460 | -25720 | -35700 | -35700 | -37020 | -37880 | 11550 | 10490 |
| .598 | 5.004 | -24800 | -25010 | -25100 | -25510 | -37750 | -37750 | -39560 | -40780 | 15600 | 13410 |
| .598 | 7.068 | -24000 | -24120 | -24140 | -25280 | -37460 | -37460 | -40520 | -42010 | 17390 | 14780 |
| .598 | 8.104 | -24780 | -25070 | -24950 | -25120 | -38320 | -38320 | -40190 | -44110 | 17990 | 15190 |
| .598 | 10.130 | -25930 | -25070 | -26100 | -25600 | -39910 | -39910 | -42300 | -46080 | 18320 | 15320 |
| .598 | 12.195 | -26280 | -26120 | -26610 | -25950 | -42700 | -42700 | -45780 | -49150 | 18580 | 15450 |
| .598 | 15.250 | -28710 | -28780 | -28970 | -29210 | -45240 | -45240 | -45910 | -46960 | 15900 | 12260 |
| .597 | 20.133 | -35070 | -35120 | -35600 | -36100 | -55340 | -55340 | -56230 | -56420 | 08850 | 05990 |
| | GRADIENT | -10312 | -00272 | -00217 | -00375 | -01169 | -01169 | -01481 | -01690 | 01623 | 01694 |

RUN NO. 0/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .800 | -10.080 | -30030 | -29130 | -29880 | -29840 | -31130 | -31130 | -39610 | -39570 | -12470 | -10240 |
| .804 | -4.823 | -26610 | -26150 | -26260 | -26300 | -21840 | -21840 | -28730 | -28870 | 01910 | 02690 |
| .798 | .184 | -27180 | -27270 | -27010 | -27590 | -27040 | -27040 | -32660 | -32920 | 12170 | 11860 |
| .799 | 2.664 | -26940 | -26660 | -26890 | -26810 | -27190 | -27190 | -33900 | -35400 | 16810 | 15090 |
| .798 | 5.255 | -26910 | -27250 | -26870 | -26280 | -31880 | -31880 | -38080 | -38740 | 19400 | 17700 |
| .802 | 8.396 | -27420 | -27060 | -26670 | -26440 | -31590 | -31590 | -39040 | -39920 | 22090 | 20030 |
| .799 | 10.442 | -29040 | -28510 | -29530 | -29360 | -33110 | -33110 | -39740 | -39350 | 23190 | 19960 |
| .799 | 12.484 | -31760 | -31010 | -30340 | -31170 | -35960 | -35960 | -42200 | -42780 | 23120 | 19780 |
| .797 | 15.570 | -34830 | -35410 | -36150 | -36250 | -40640 | -40640 | -48080 | -47660 | 22270 | 18900 |
| .791 | 20.487 | -36620 | -38580 | -38330 | -38640 | -45270 | -45270 | -52170 | -52090 | 16890 | 13170 |
| | GRADIENT | -00054 | -00091 | -00094 | -00095 | -00762 | -00762 | -00704 | -00863 | 01999 | 01682 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

AMES 118-1-11 0A145A 01

PAGE 1678

(E2FY27) (19 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = 0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = 10.000
AILRON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO.

0/ 0

5.01

CP237

CP240

CP243

CP246

CP12

CP13

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .951 | -9.876 | -33960 | -34170 | -34370 | -34320 | -45980 | -45980 | -45760 | -46090 | .03180 | .05880 |
| .953 | -5.006 | -39970 | -34730 | -25920 | -14680 | -39540 | -39540 | -38660 | .00000 | .13210 | .13550 |
| .951 | .023 | -30860 | -30560 | -30380 | -30500 | -37850 | -37850 | -38940 | -39550 | .21670 | .19810 |
| .952 | 2.580 | -31050 | -30380 | -30590 | -30260 | -41420 | -41420 | -41940 | -42920 | .25010 | .22820 |
| .949 | 5.074 | -29270 | -29400 | -29400 | -29800 | -36430 | -36430 | -36760 | -37870 | .28180 | .24650 |
| .948 | 7.152 | -29040 | -29620 | -29900 | -29320 | -35470 | -35470 | -35770 | -36650 | .29720 | .25780 |
| .951 | 8.172 | -29650 | -28870 | -29000 | -29040 | -36930 | -36930 | -37100 | -37590 | .30650 | .26510 |
| .950 | 10.234 | -29490 | -29950 | -29640 | -29730 | -39480 | -39480 | -38820 | -39380 | .31400 | .27050 |
| .951 | 12.319 | -31980 | -32050 | -31950 | -31910 | -41500 | -41500 | -41250 | -42240 | .31630 | .27030 |
| .949 | 15.411 | -34730 | -34470 | -34440 | -34450 | -44040 | -44040 | -43910 | -44670 | .31170 | .26420 |
| .951 | 20.846 | -39390 | -40330 | -40050 | -40270 | -46080 | -46080 | -46260 | -47250 | .28070 | .23070 |
| | GRADIENT | -00374 | .00070 | -00082 | .00094 | -01396 | -01396 | -01173 | -01318 | .01306 | .01177 |

RUN NO.

0/ 0

5.00

CP237

CP240

CP243

CP246

CP12

CP13

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.100 | -5.820 | -34220 | -34420 | -34010 | -34360 | -35210 | -35210 | -35900 | -35150 | .28870 | .29830 |
| 1.103 | -800 | -32350 | -32610 | -32610 | -32670 | -34070 | -34070 | -34550 | -35780 | .35900 | .34090 |
| 1.100 | 1.763 | -32400 | -32620 | -32490 | -32490 | -33090 | -33090 | -34130 | -34360 | .37960 | .35600 |
| 1.099 | 4.271 | -33560 | -33890 | -33870 | -33950 | -33970 | -33970 | -34720 | -34280 | .40140 | .36680 |
| 1.101 | 6.350 | -34170 | -34200 | -34140 | -34260 | -34350 | -34350 | -35180 | -34630 | .41960 | .37750 |
| 1.039 | 7.353 | -34630 | -35050 | -35170 | -34360 | -34850 | -34850 | -35720 | -36250 | .42140 | .37960 |
| 1.100 | 9.428 | -34860 | -35060 | -35120 | -35040 | -34930 | -34930 | -36000 | -35690 | .43170 | .38730 |
| 1.099 | 11.500 | -35330 | -35530 | -35440 | -35170 | -34980 | -34980 | -36210 | -36060 | .43480 | .38400 |
| 1.100 | 14.580 | -36980 | -37440 | -37410 | -37190 | -37120 | -37120 | -38300 | -38340 | .43320 | .37830 |
| | GRADIENT | -00238 | -00251 | -00247 | -00251 | .00021 | .00021 | -00033 | .00297 | .00836 | .00511 |

RUN NO.

0/ 0

5.03

CP237

CP240

CP243

CP246

CP12

CP13

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.198 | -4.239 | -32320 | -32450 | -32480 | -32510 | -31650 | -31650 | -31680 | -32380 | .34190 | .35600 |
| 1.200 | .183 | -31780 | -32010 | -31780 | -31910 | -31510 | -31510 | -31960 | -32310 | .38600 | .36580 |
| 1.196 | 2.689 | -32430 | -32610 | -32640 | -32590 | -33250 | -33250 | -33940 | -33790 | .39940 | .36780 |
| 1.198 | 5.209 | -32900 | -33060 | -33050 | -32760 | -33010 | -33010 | -33360 | -33590 | .42600 | .37690 |
| 1.199 | 8.315 | -32250 | -32730 | -32910 | -32900 | -33470 | -33470 | -33290 | -34020 | .43940 | .38080 |
| 1.199 | 10.379 | -32080 | -32070 | -32300 | -32330 | -33540 | -33540 | -33810 | -33810 | .44480 | .38240 |
| 1.199 | 12.472 | -31690 | -32170 | -32160 | -32320 | -33020 | -33020 | -33360 | -33360 | .44410 | .38100 |
| 1.195 | 15.566 | -33500 | -33950 | -33940 | -33900 | -34790 | -34790 | -34350 | -34600 | .44240 | .37990 |
| 1.196 | 20.592 | -35670 | -35930 | -35770 | -35830 | -36890 | -36890 | -36570 | -36970 | .42640 | .37040 |
| 1.185 | GRADIENT | -00000 | -00009 | -00002 | .00005 | -00201 | -00201 | -00217 | -00178 | .00849 | .00176 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1679

AMES 118-1-11 OAI45A 01

(E2FY27) (19 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

BETA =
AILRON =
SPDRK =
RN/L =

ELEVON = 10.000
BOFLAP = .000
RUDDER = .000

PARAMETRIC DATA

RUN NO. 0/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | | | | | | | | |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
| 1.298 | -9.944 | -30090 | -30190 | -30130 | -30200 | -30620 | -30620 | -30850 | -31310 | -35490 | -37770 |
| 1.296 | -5.057 | -30750 | -30780 | -30910 | -30820 | -31710 | -31710 | -32410 | -32490 | -37500 | -38850 |
| 1.297 | .013 | -31050 | -31410 | -31390 | -31320 | -31810 | -31810 | -32080 | -32200 | -40350 | -39590 |
| 1.296 | 2.544 | -31530 | -31740 | -31740 | -31880 | -32660 | -32660 | -32590 | -32950 | -43420 | -40140 |
| 1.295 | 5.037 | -32340 | -32270 | -32380 | -32490 | -33150 | -33150 | -33130 | -33600 | -44930 | -39750 |
| 1.295 | 7.115 | -32690 | -32680 | -32720 | -32650 | -33290 | -33290 | -33380 | -33650 | -45920 | -39170 |
| 1.296 | 8.161 | -32170 | -32670 | -32640 | -32700 | -33310 | -33310 | -33170 | -33310 | -46420 | -39170 |
| 1.296 | 10.207 | -32610 | -32800 | -32800 | -32860 | -33090 | -33090 | -33070 | -33310 | -47070 | -39400 |
| 1.295 | 12.302 | -33570 | -33760 | -33860 | -33750 | -33770 | -33770 | -33650 | -33720 | -46930 | -39760 |
| 1.294 | 15.384 | -33510 | -33770 | -33620 | -33800 | -33550 | -33550 | -33230 | -33370 | -47420 | -40190 |
| 1.281 | 20.334 | -33970 | -32150 | -32150 | -32080 | -32060 | -32060 | -31720 | -31930 | -46100 | -39900 |
| | GRADIENT | -0.0188 | -0.0129 | -0.0137 | -0.0219 | -0.0333 | -0.0333 | -0.0200 | -0.0293 | -0.1201 | -0.0215 |

RUN NO. 0/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | | | | | | | | |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
| 1.402 | -4.954 | -29200 | -29280 | -29310 | -29240 | -30870 | -30870 | -32820 | -32830 | -40100 | -43270 |
| 1.404 | .224 | -30690 | -30900 | -30830 | -30830 | -32040 | -32040 | -33540 | -33360 | -44770 | -45610 |
| 1.403 | 2.777 | -31280 | -31390 | -31540 | -31480 | -32630 | -32630 | -33960 | -33380 | -46160 | -46030 |
| 1.403 | 5.314 | -31410 | -31590 | -31540 | -31620 | -31340 | -31340 | -32800 | -33110 | -48620 | -45840 |
| 1.403 | 6.299 | -31120 | -31330 | -31310 | -31270 | -31040 | -31040 | -33000 | -32670 | -49170 | -46290 |
| 1.402 | 7.405 | -31040 | -31170 | -31250 | -31270 | -31390 | -31390 | -33930 | -33230 | -49120 | -46540 |
| 1.402 | 8.391 | -30980 | -31170 | -30870 | -30890 | -30220 | -30220 | -31920 | -31280 | -49370 | -46490 |
| 1.399 | 9.439 | -31030 | -31210 | -31140 | -31080 | -30930 | -30930 | -31870 | -31450 | -50390 | -46310 |
| | GRADIENT | -0.0672 | -0.0279 | -0.0289 | -0.0292 | -0.0227 | -0.0227 | -0.0146 | -0.0076 | -0.0801 | -0.0371 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

AMES 118-1-11 0A145A 01

(E2F028) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = 20.000
 AILRON = .000 BDFLAP = .000
 SPDRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 404/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .601 | -4.894 | -34350 | -33890 | -33440 | -33400 | -35100 | -35100 | -36720 | -36790 | -36990 | -36680 |
| .601 | .166 | -33810 | -32560 | -32630 | -32740 | -37820 | -37820 | -40710 | -42980 | -40450 | -40710 |
| .601 | 3.059 | -32870 | -32960 | -32010 | -32100 | -40580 | -40580 | -44170 | -47160 | -42690 | -41100 |
| .601 | 5.266 | -33770 | -33000 | -32980 | -32910 | -45040 | -45040 | -49360 | -53380 | -49360 | -49360 |
| .600 | 7.006 | -36030 | -34660 | -34150 | -34500 | -50110 | -50110 | -54580 | -59590 | -54580 | -54580 |
| .601 | 8.321 | -38190 | -37350 | -37260 | -36860 | -58930 | -58930 | -64010 | -68040 | -64010 | -64010 |
| .601 | 10.341 | -38130 | -36880 | -37430 | -37570 | -61920 | -61920 | -65750 | -69840 | -65750 | -65750 |
| .599 | 12.358 | -39690 | -38450 | -38640 | -38550 | -58980 | -58980 | -63250 | -66440 | -63250 | -63250 |
| .600 | 15.312 | -41820 | -40380 | -40360 | -40290 | -52050 | -52050 | -54500 | -55680 | -54500 | -54500 |
| GRADIENT | | .00177 | .00133 | .00178 | .00160 | .00672 | .00672 | .00920 | .01295 | .02138 | .01881 |

RUN NO. 408/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .799 | -4.697 | -35130 | -34450 | -34000 | -34130 | -35230 | -35230 | -35840 | -36730 | -36480 | -36210 |
| .799 | .170 | -34980 | -34090 | -34090 | -33900 | -39660 | -39660 | -41520 | -43410 | -42770 | -42770 |
| .799 | 2.721 | -35620 | -34320 | -34100 | -33880 | -42750 | -42750 | -44060 | -46650 | -45860 | -45860 |
| .796 | 5.301 | -37720 | -37350 | -36560 | -36940 | -59940 | -59940 | -61000 | -62350 | -60800 | -60800 |
| .797 | 7.286 | -38890 | -38110 | -37740 | -37970 | -56970 | -56970 | -59600 | -60930 | -61710 | -61710 |
| .798 | 8.328 | -39030 | -38240 | -37480 | -36960 | -56600 | -56600 | -58320 | -60040 | -61820 | -61820 |
| .796 | 10.431 | -38240 | -37290 | -36920 | -37180 | -42740 | -42740 | -43950 | -45060 | -42870 | -42870 |
| .797 | 12.298 | -38970 | -38560 | -37820 | -38090 | -43290 | -43290 | -45240 | -46300 | -43340 | -43340 |
| .793 | 15.276 | -44130 | -43250 | -43010 | -43200 | -48390 | -48390 | -50560 | -51970 | -51560 | -51560 |
| GRADIENT | | .00053 | .00025 | .00014 | .00035 | .01000 | .01000 | .01116 | .01342 | .01962 | .01618 |

RUN NO. 393/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .900 | -4.957 | -33960 | -32990 | -33460 | -33560 | -34390 | -34390 | -33850 | -35180 | -34420 | -34420 |
| .900 | .113 | -33870 | -32110 | -32940 | -32750 | -35760 | -35760 | -38050 | -39870 | -37330 | -37330 |
| .900 | 2.726 | -33430 | -33060 | -33100 | -32560 | -39750 | -39750 | -41380 | -43840 | -41080 | -41080 |
| .902 | 5.316 | -32340 | -31760 | -31550 | -31150 | -34300 | -34300 | -36080 | -37630 | -34430 | -34430 |
| .900 | 7.307 | -31670 | -31720 | -31380 | -31460 | -32220 | -32220 | -34250 | -35300 | -25640 | -25640 |
| .899 | 8.305 | -32850 | -32570 | -32350 | -31830 | -33520 | -33520 | -33880 | -36040 | -26270 | -26270 |
| .900 | 10.354 | -33110 | -32960 | -32640 | -33160 | -36230 | -36230 | -37020 | -38800 | -27350 | -27350 |
| .901 | 12.374 | -34230 | -34070 | -33730 | -33640 | -38180 | -38180 | -38930 | -40600 | -28040 | -28040 |
| .900 | 15.401 | -37600 | -37390 | -37110 | -36710 | -41210 | -41210 | -42430 | -44230 | -27940 | -27940 |
| GRADIENT | | .00062 | .00016 | .00054 | .00134 | .00639 | .00639 | .00959 | .01100 | .01802 | .01433 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

(E2F028) (15 JUL 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = 20.000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 394/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .951 | -4.975 | -34830 | -34720 | -34300 | -34280 | -36040 | -36040 | -36240 | -36820 | .11900 | .12950 |
| .951 | .136 | -34020 | -33530 | -33350 | -33740 | -35910 | -35910 | -36390 | -37800 | .20880 | .19450 |
| .949 | 2.705 | -34080 | -33840 | -33620 | -33740 | -37520 | -37520 | -39280 | -40750 | .24300 | .22040 |
| .950 | 5.247 | -32870 | -32310 | -32080 | -32950 | -36730 | -36730 | -38790 | -40280 | .26950 | .24000 |
| .948 | 7.299 | -33360 | -32170 | -32320 | -33290 | -35310 | -35310 | -37210 | -39190 | .28730 | .25480 |
| .950 | 8.324 | -31850 | -31430 | -32020 | -33290 | -35850 | -35850 | -37550 | -37980 | .29430 | .26230 |
| .949 | 10.351 | -32970 | -32180 | -31720 | -31910 | -35060 | -35060 | -35800 | -37580 | .30250 | .26410 |
| .950 | 12.400 | -32800 | -33080 | -32970 | -32850 | -35840 | -35840 | -36770 | -38260 | .31160 | .26740 |
| .949 | 15.417 | -35380 | -35580 | -35470 | -35700 | -38250 | -38250 | -39500 | -41080 | .31330 | .26200 |
| | GRADIENT | .00108 | .00131 | .00102 | .00065 | .00162 | .00162 | .00344 | .00471 | .01635 | .01195 |

RUN NO. 428/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.199 | -5.058 | -33370 | -34000 | -34040 | -33840 | -29120 | -29120 | -28810 | -28870 | .33240 | .34090 |
| 1.201 | .019 | -32030 | -32220 | -32100 | -31960 | -27920 | -27920 | -28170 | -28860 | .38370 | .35090 |
| 1.194 | 2.673 | -32350 | -32650 | -32580 | -32750 | -28410 | -28410 | -28880 | -29330 | .39750 | .35020 |
| 1.198 | 5.227 | -32220 | -32510 | -32380 | -32270 | -28020 | -28020 | -28630 | -29050 | .41630 | .35830 |
| 1.199 | 7.264 | -32110 | -32110 | -32260 | -32010 | -27600 | -27600 | -28230 | -29070 | .42750 | .36360 |
| 1.197 | 8.275 | -31720 | -31630 | -32130 | -32170 | -27240 | -27240 | -28310 | -28860 | .42800 | .36410 |
| 1.198 | 10.314 | -31550 | -31650 | -31570 | -31690 | -27100 | -27100 | -27860 | -28490 | .43910 | .36730 |
| 1.198 | 12.357 | -32140 | -32490 | -32430 | -32480 | -27680 | -27680 | -28660 | -29420 | .44050 | .36800 |
| 1.185 | 15.359 | -35730 | -36070 | -35990 | -35940 | -30860 | -30860 | -31610 | -32300 | .43080 | .35490 |
| | GRADIENT | .00119 | .00160 | .00178 | .00294 | .00182 | .00182 | .00264 | .00175 | .00513 | .00026 |

RUN NO. 427/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.301 | -4.964 | -30760 | -30950 | -30720 | -30730 | -29320 | -29320 | -29500 | -29730 | .37780 | .38690 |
| 1.299 | .045 | -30900 | -31410 | -31100 | -31010 | -28760 | -28760 | -29280 | -29790 | .40480 | .38830 |
| 1.295 | 2.660 | -31790 | -31800 | -31700 | -31700 | -28760 | -28760 | -29460 | -29830 | .42640 | .38490 |
| 1.293 | 5.190 | -31890 | -32250 | -32100 | -32130 | -27950 | -27950 | -28220 | -28770 | .44220 | .38100 |
| 1.292 | 7.240 | -31830 | -32000 | -31850 | -31870 | -26930 | -26930 | -27340 | -27780 | .45080 | .38490 |
| 1.293 | 8.271 | -31520 | -31840 | -31820 | -31770 | -26370 | -26370 | -26970 | -27370 | .45140 | .38700 |
| 1.293 | 10.324 | -32260 | -32300 | -32340 | -32120 | -25170 | -25170 | -25730 | -26210 | .46280 | .38370 |
| 1.293 | 12.317 | -33500 | -33600 | -33630 | -33530 | -24230 | -24230 | -24850 | -25210 | .46410 | .38590 |
| 1.293 | 15.341 | -33380 | -33530 | -33210 | -33240 | -23170 | -23170 | -23670 | -24100 | .46890 | .39130 |
| 1.292 | GRADIENT | .00121 | .00109 | .00124 | .00118 | .00079 | .00079 | .00010 | .00013 | .00624 | .00019 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1682

(E2F028) (16 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = 20.000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 416/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH
 1.403 ALPHA
 1.405 -4.943
 1.405 .050
 1.401 2.758
 1.399 5.279
 1.398 7.295
 1.401 8.334
 1.400 10.368
 1.384 12.416
 1.383 15.441
 GRADIENT

CP225 CP228 CP231 CP234 CP240 CP243 CP246 CP249 CP252
 -30200 -30360 -30310 -30100 -27830 -27810 -28020 -29710 -29900
 -30220 -30360 -30480 -30340 -27370 -27490 -27610 -44510 -43870
 -30570 -30960 -30870 -30770 -26780 -26780 -26960 -46080 -44950
 -30640 -30890 -30850 -30810 -25400 -25510 -25890 -48820 -44540
 -33890 -23150 -26950 -22810 -23690 -23890 -00000 -48800 -45520
 -29520 -29850 -29680 -22730 -22730 -22970 -49030 -46260
 -30010 -30340 -30230 -21580 -21600 -21970 -50130 -45190
 -31670 -31970 -31810 -21600 -21600 -22010 -50040 -44700
 -31330 -31400 -31120 -19520 -19520 -19820 -50960 -45350
 -00043 -00068 -00068 -00082 -00131 -00109 -00131 -00844 -00257

CP12
 .39710
 .44510
 .46080
 .48820
 .48800
 .49030
 .50130
 .50040
 .50960
 .00844
 .00257
 CP13
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 .44950
 .45520
 .46260
 .45190
 .44700
 .45350
 .00844
 .00257

AMES 118-1-11 OAI45A 01

(E2F029) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = -5.000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 70/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH
 .598 ALPHA
 .598 -9.898
 .598 -5.039
 .598 -.054
 .598 2.478
 .598 4.976
 .598 7.044
 .598 8.049
 .598 10.106
 .598 12.176
 .598 15.224
 .599 20.067
 GRADIENT

CP225 CP228 CP231 CP234 CP240 CP243 CP246 CP249 CP252
 -19870 -20110 -20090 -19850 -22140 -22220 -23130 -21120 -20430
 -19640 -19210 -19490 -19570 -21690 -22240 -23290 -21120 -20430
 -19530 -19340 -19080 -19220 -20320 -20560 -20770 -07110 -04190
 -19870 -19850 -19940 -19610 -21050 -21120 -21530 -11720 -10410
 -19920 -20210 -19940 -20110 -22580 -23390 -24010 -15630 -13360
 -20230 -20450 -20020 -20400 -25430 -25390 -26390 -17160 -14670
 -20110 -19970 -20950 -20490 -25430 -26680 -27780 -17710 -15000
 -20640 -20500 -20480 -21020 -27090 -28140 -30460 -17990 -15260
 -21160 -21230 -20480 -21300 -29590 -31460 -33900 -18240 -15140
 -22660 -23060 -21090 -23060 -32590 -33740 -34440 -15850 -12810
 -27700 -27890 -27920 -27990 -42360 -42930 -44030 -09390 -06520
 -00078 -00173 -00171 -00177 -00449 -00562 -00643 -01694 -01522

CP12
 -.21120
 -.04730
 -.07110
 .11720
 .15630
 .17160
 .17710
 .17990
 .18240
 .15850
 .09390
 .01694
 CP13
 -.20430
 -.04190
 .05710
 .10410
 .13360
 .14670
 .15000
 .15260
 .15140
 .12810
 .06520
 .01522

DATE 10 MAR 80

OAI15 TABULATED FORCE DATA

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(E2F029) (15 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = -5.000
 AIRLON = .000 BDFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 110/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP249 | CP252 | CP255 | CP258 | CP261 | CP264 | CP267 | CP270 | CP273 | CP276 | CP279 | CP282 | CP285 | CP288 | CP291 | CP294 | CP297 | CP300 | CP303 | CP306 | CP309 | CP312 | CP315 | CP318 | CP321 | CP324 | CP327 | CP330 | CP333 | CP336 | CP339 | CP342 | CP345 | CP348 | CP351 | CP354 | CP357 | CP360 | CP363 | CP366 | CP369 | CP372 | CP375 | CP378 | CP381 | CP384 | CP387 | CP390 | CP393 | CP396 | CP399 | CP402 | CP405 | CP408 | CP411 | CP414 | CP417 | CP420 | CP423 | CP426 | CP429 | CP432 | CP435 | CP438 | CP441 | CP444 | CP447 | CP450 | CP453 | CP456 | CP459 | CP462 | CP465 | CP468 | CP471 | CP474 | CP477 | CP480 | CP483 | CP486 | CP489 | CP492 | CP495 | CP498 | CP501 | CP504 | CP507 | CP510 | CP513 | CP516 | CP519 | CP522 | CP525 | CP528 | CP531 | CP534 | CP537 | CP540 | CP543 | CP546 | CP549 | CP552 | CP555 | CP558 | CP561 | CP564 | CP567 | CP570 | CP573 | CP576 | CP579 | CP582 | CP585 | CP588 | CP591 | CP594 | CP597 | CP600 | CP603 | CP606 | CP609 | CP612 | CP615 | CP618 | CP621 | CP624 | CP627 | CP630 | CP633 | CP636 | CP639 | CP642 | CP645 | CP648 | CP651 | CP654 | CP657 | CP660 | CP663 | CP666 | CP669 | CP672 | CP675 | CP678 | CP681 | CP684 | CP687 | CP690 | CP693 | CP696 | CP699 | CP702 | CP705 | CP708 | CP711 | CP714 | CP717 | CP720 | CP723 | CP726 | CP729 | CP732 | CP735 | CP738 | CP741 | CP744 | CP747 | CP750 | CP753 | CP756 | CP759 | CP762 | CP765 | CP768 | CP771 | CP774 | CP777 | CP780 | CP783 | CP786 | CP789 | CP792 | CP795 | CP798 | CP801 | CP804 | CP807 | CP810 | CP813 | CP816 | CP819 | CP822 | CP825 | CP828 | CP831 | CP834 | CP837 | CP840 | CP843 | CP846 | CP849 | CP852 | CP855 | CP858 | CP861 | CP864 | CP867 | CP870 | CP873 | CP876 | CP879 | CP882 | CP885 | CP888 | CP891 | CP894 | CP897 | CP900 | CP903 | CP906 | CP909 | CP912 | CP915 | CP918 | CP921 | CP924 | CP927 | CP930 | CP933 | CP936 | CP939 | CP942 | CP945 | CP948 | CP951 | CP954 | CP957 | CP960 | CP963 | CP966 | CP969 | CP972 | CP975 | CP978 | CP981 | CP984 | CP987 | CP990 | CP993 | CP996 | CP999 | CP1002 | CP1005 | CP1008 | CP1011 | CP1014 | CP1017 | CP1020 | CP1023 | CP1026 | CP1029 | CP1032 | CP1035 | CP1038 | CP1041 | CP1044 | CP1047 | CP1050 | CP1053 | CP1056 | CP1059 | CP1062 | CP1065 | CP1068 | CP1071 | CP1074 | CP1077 | CP1080 | CP1083 | CP1086 | CP1089 | CP1092 | CP1095 | CP1098 | CP1101 | CP1104 | CP1107 | CP1110 | CP1113 | CP1116 | CP1119 | CP1122 | CP1125 | CP1128 | CP1131 | CP1134 | CP1137 | CP1140 | CP1143 | CP1146 | CP1149 | CP1152 | CP1155 | CP1158 | CP1161 | CP1164 | CP1167 | CP1170 | CP1173 | CP1176 | CP1179 | CP1182 | CP1185 | CP1188 | CP1191 | CP1194 | CP1197 | CP1200 | CP1203 | CP1206 | CP1209 | CP1212 | CP1215 | CP1218 | CP1221 | CP1224 | CP1227 | CP1230 | CP1233 | CP1236 | CP1239 | CP1242 | CP1245 | CP1248 | CP1251 | CP1254 | CP1257 | CP1260 | CP1263 | CP1266 | CP1269 | CP1272 | CP1275 | CP1278 | CP1281 | CP1284 | CP1287 | CP1290 | CP1293 | CP1296 | CP1299 | CP1302 | CP1305 | CP1308 | CP1311 | CP1314 | CP1317 | CP1320 | CP1323 | CP1326 | CP1329 | CP1332 | CP1335 | CP1338 | CP1341 | CP1344 | CP1347 | CP1350 | CP1353 | CP1356 | CP1359 | CP1362 | CP1365 | CP1368 | CP1371 | CP1374 | CP1377 | CP1380 | CP1383 | CP1386 | CP1389 | CP1392 | CP1395 | CP1398 | CP1401 | CP1404 | CP1407 | CP1410 | CP1413 | CP1416 | CP1419 | CP1422 | CP1425 | CP1428 | CP1431 | CP1434 | CP1437 | CP1440 | CP1443 | CP1446 | CP1449 | CP1452 | CP1455 | CP1458 | CP1461 | CP1464 | CP1467 | CP1470 | CP1473 | CP1476 | CP1479 | CP1482 | CP1485 | CP1488 | CP1491 | CP1494 | CP1497 | CP1500 | CP1503 | CP1506 | CP1509 | CP1512 | CP1515 | CP1518 | CP1521 | CP1524 | CP1527 | CP1530 | CP1533 | CP1536 | CP1539 | CP1542 | CP1545 | CP1548 | CP1551 | CP1554 | CP1557 | CP1560 | CP1563 | CP1566 | CP1569 | CP1572 | CP1575 | CP1578 | CP1581 | CP1584 | CP1587 | CP1590 | CP1593 | CP1596 | CP1599 | CP1602 | CP1605 | CP1608 | CP1611 | CP1614 | CP1617 | CP1620 | CP1623 | CP1626 | CP1629 | CP1632 | CP1635 | CP1638 | CP1641 | CP1644 | CP1647 | CP1650 | CP1653 | CP1656 | CP1659 | CP1662 | CP1665 | CP1668 | CP1671 | CP1674 | CP1677 | CP1680 | CP1683 | CP1686 | CP1689 | CP1692 | CP1695 | CP1698 | CP1701 | CP1704 | CP1707 | CP1710 | CP1713 | CP1716 | CP1719 | CP1722 | CP1725 | CP1728 | CP1731 | CP1734 | CP1737 | CP1740 | CP1743 | CP1746 | CP1749 | CP1752 | CP1755 | CP1758 | CP1761 | CP1764 | CP1767 | CP1770 | CP1773 | CP1776 | CP1779 | CP1782 | CP1785 | CP1788 | CP1791 | CP1794 | CP1797 | CP1800 | CP1803 | CP1806 | CP1809 | CP1812 | CP1815 | CP1818 | CP1821 | CP1824 | CP1827 | CP1830 | CP1833 | CP1836 | CP1839 | CP1842 | CP1845 | CP1848 | CP1851 | CP1854 | CP1857 | CP1860 | CP1863 | CP1866 | CP1869 | CP1872 | CP1875 | CP1878 | CP1881 | CP1884 | CP1887 | CP1890 | CP1893 | CP1896 | CP1899 | CP1902 | CP1905 | CP1908 | CP1911 | CP1914 | CP1917 | CP1920 | CP1923 | CP1926 | CP1929 | CP1932 | CP1935 | CP1938 | CP1941 | CP1944 | CP1947 | CP1950 | CP1953 | CP1956 | CP1959 | CP1962 | CP1965 | CP1968 | CP1971 | CP1974 | CP1977 | CP1980 | CP1983 | CP1986 | CP1989 | CP1992 | CP1995 | CP1998 | CP2001 | CP2004 | CP2007 | CP2010 | CP2013 | CP2016 | CP2019 | CP2022 | CP2025 | CP2028 | CP2031 | CP2034 | CP2037 | CP2040 | CP2043 | CP2046 | CP2049 | CP2052 | CP2055 | CP2058 | CP2061 | CP2064 | CP2067 | CP2070 | CP2073 | CP2076 | CP2079 | CP2082 | CP2085 | CP2088 | CP2091 | CP2094 | CP2097 | CP2100 | CP2103 | CP2106 | CP2109 | CP2112 | CP2115 | CP2118 | CP2121 | CP2124 | CP2127 | CP2130 | CP2133 | CP2136 | CP2139 | CP2142 | CP2145 | CP2148 | CP2151 | CP2154 | CP2157 | CP2160 | CP2163 | CP2166 | CP2169 | CP2172 | CP2175 | CP2178 | CP2181 | CP2184 | CP2187 | CP2190 | CP2193 | CP2196 | CP2199 | CP2202 | CP2205 | CP2208 | CP2211 | CP2214 | CP2217 | CP2220 | CP2223 | CP2226 | CP2229 | CP2232 | CP2235 | CP2238 | CP2241 | CP2244 | CP2247 | CP2250 | CP2253 | CP2256 | CP2259 | CP2262 | CP2265 | CP2268 | CP2271 | CP2274 | CP2277 | CP2280 | CP2283 | CP2286 | CP2289 | CP2292 | CP2295 | CP2298 | CP2301 | CP2304 | CP2307 | CP2310 | CP2313 | CP2316 | CP2319 | CP2322 | CP2325 | CP2328 | CP2331 | CP2334 | CP2337 | CP2340 | CP2343 | CP2346 | CP2349 | CP2352 | CP2355 | CP2358 | CP2361 | CP2364 | CP2367 | CP2370 | CP2373 | CP2376 | CP2379 | CP2382 | CP2385 | CP2388 | CP2391 | CP2394 | CP2397 | CP2400 | CP2403 | CP2406 | CP2409 | CP2412 | CP2415 | CP2418 | CP2421 | CP2424 | CP2427 | CP2430 | CP2433 | CP2436 | CP2439 | CP2442 | CP2445 | CP2448 | CP2451 | CP2454 | CP2457 | CP2460 | CP2463 | CP2466 | CP2469 | CP2472 | CP2475 | CP2478 | CP2481 | CP2484 | CP2487 | CP2490 | CP2493 | CP2496 | CP2499 | CP2502 | CP2505 | CP2508 | CP2511 | CP2514 | CP2517 | CP2520 | CP2523 | CP2526 | CP2529 | CP2532 | CP2535 | CP2538 | CP2541 | CP2544 | CP2547 | CP2550 | CP2553 | CP2556 | CP2559 | CP2562 | CP2565 | CP2568 | CP2571 | CP2574 | CP2577 | CP2580 | CP2583 | CP2586 | CP2589 | CP2592 | CP2595 | CP2598 | CP2601 | CP2604 | CP2607 | CP2610 | CP2613 | CP2616 | CP2619 | CP2622 | CP2625 | CP2628 | CP2631 | CP2634 | CP2637 | CP2640 | CP2643 | CP2646 | CP2649 | CP2652 | CP2655 | CP2658 | CP2661 | CP2664 | CP2667 | CP2670 | CP2673 | CP2676 | CP2679 | CP2682 | CP2685 | CP2688 | CP2691 | CP2694 | CP2697 | CP2700 | CP2703 | CP2706 | CP2709 | CP2712 | CP2715 | CP2718 | CP2721 | CP2724 | CP2727 | CP2730 | CP2733 | CP2736 | CP2739 | CP2742 | CP2745 | CP2748 | CP2751 | CP2754 | CP2757 | CP2760 | CP2763 | CP2766 | CP2769 | CP2772 | CP2775 | CP2778 | CP2781 | CP2784 | CP2787 | CP2790 | CP2793 | CP2796 | CP2799 | CP2802 | CP2805 | CP2808 | CP2811 | CP2814 | CP2817 | CP2820 | CP2823 | CP2826 | CP2829 | CP2832 | CP2835 | CP2838 | CP2841 | CP2844 | CP2847 | CP2850 | CP2853 | CP2856 | CP2859 | CP2862 | CP2865 | CP2868 | CP2871 | CP2874 | CP2877 | CP2880 | CP2883 | CP2886 | CP2889 | CP2892 | CP2895 | CP2898 | CP2901 | CP2904 | CP2907 | CP2910 | CP2913 | CP2916 | CP2919 | CP2922 | CP2925 | CP2928 | CP2931 | CP2934 | CP2937 | CP2940 | CP2943 | CP2946 | CP2949 | CP2952 | CP2955 | CP2958 | CP2961 | CP2964 | CP2967 | CP2970 | CP2973 | CP2976 | CP2979 | CP2982 | CP2985 | CP2988 | CP2991 | CP2994 | CP2997 | CP3000 | CP3003 | CP3006 | CP3009 | CP3012 | CP3015 | CP3018 | CP3021 | CP3024 | CP3027 | CP3030 | CP3033 | CP3036 | CP3039 | CP3042 | CP3045 | CP3048 | CP3051 | CP3054 | CP3057 | CP3060 | CP3063 | CP3066 | CP3069 | CP3072 | CP3075 | CP3078 | CP3081 | CP3084 | CP3087 | CP3090 | CP3093 | CP3096 | CP3099 | CP3102 | CP3105 | CP3108 | CP3111 | CP3114 | CP3117 | CP3120 | CP3123 | CP3126 | CP3129 | CP3132 | CP3135 | CP3138 | CP3141 | CP3144 | CP3147 | CP3150 | CP3153 | CP3156 | CP3159 | CP3162 | CP3165 | CP3168 | CP3171 | CP3174 | CP3177 | CP3180 | CP3183 | CP3186 | CP3189 | CP3192 | CP3195 | CP3198 | CP3201 | CP3204 | CP3207 | CP3210 | CP3213 | CP3216 | CP3219 | CP3222 | CP3225 | CP3228 | CP3231 | CP3234 | CP3237 | CP3240 | CP3243 | CP3246 | CP3249 | CP3252 | CP3255 | CP3258 | CP3261 | CP3264 | CP3267 | CP3270 | CP3273 | CP3276 | CP3279 | CP3282 | CP3285 | CP3288 | CP3291 | CP3294 | CP3297 | CP3300 | CP3303 | CP3306 | CP3309 | CP3312 | CP3315 | CP3318 | CP3321 | CP3324 | CP3327 | CP3330 | CP3333 | CP3336 | CP3339 | CP3342 | CP3345 | CP3348 | CP3351 | CP3354 | CP3357 | CP3360 | CP3363 | CP3366 | CP3369 | CP3372 | CP3375 | CP3378 | CP3381 | CP3384 | CP3387 | CP3390 | CP3393 | CP3396 | CP3399 | CP3402 | CP3405 | CP3408 | CP3411 | CP3414 | CP3417 | CP3420 | CP3423 | CP3426 | CP3429 | CP3432 | CP3435 | CP3438 | CP3441 | CP3444 | CP3447 | CP3450 | CP3453 | CP3456 | CP3459 | CP3462 | CP3465 | CP3468 | CP3471 | CP3474 | CP3477 |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----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|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

OAI45 TABULATED FORCE DATA

AMES 11B-1-11 OAI45A 01

DATE 10 MAR 80

(E2F029) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = -5.000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 64/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|---------|---------|---------|--------|---------|---------|---------|---------|--------|--------|
| .951 | -9.932 | -23150 | -22990 | -22990 | -23340 | -27620 | -27620 | -27950 | -29530 | .02990 | .05870 |
| .947 | -5.003 | -23150 | -23050 | -22550 | -22840 | -28340 | -28340 | -28990 | -30390 | .12820 | .13100 |
| .949 | .026 | -22280 | -22090 | -22130 | -22510 | -26330 | -26330 | -27280 | -27760 | .21400 | .19770 |
| .950 | 2.560 | -22950 | -22700 | -22710 | -22510 | -32230 | -32230 | -32700 | -33180 | .24760 | .22360 |
| .950 | 5.033 | -23030 | -22880 | -22980 | -22940 | -33750 | -33750 | -34310 | -34990 | .27990 | .24470 |
| .951 | 7.150 | -22380 | -22770 | -22690 | -22180 | -35550 | -35550 | -36600 | -36990 | .29790 | .25870 |
| .951 | 8.171 | -22040 | -22680 | -22650 | -22630 | -37110 | -37110 | -37710 | -37230 | .30310 | .26280 |
| .952 | 10.241 | -23220 | -23900 | -23710 | -23420 | -40130 | -40130 | -40010 | -40480 | .31190 | .26660 |
| .952 | 12.296 | -25660 | -25010 | -25160 | -25230 | -43390 | -43390 | -42720 | -43220 | .31650 | .27100 |
| .950 | 15.368 | -30230 | -30280 | -29730 | -29750 | -50220 | -50220 | -49230 | -50130 | .30560 | .26130 |
| .950 | 20.668 | -33070 | -32740 | -33540 | -34580 | -53360 | -53360 | -53380 | -53710 | .27410 | .22320 |
| GRADIENT | | -.00264 | -.00241 | -.00229 | .00000 | -.02329 | -.02329 | -.02139 | -.02139 | .01326 | .01022 |

RUN NO. 245/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP235 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 1.052 | -8.843 | -27070 | -27130 | -27180 | -26790 | -28860 | -28860 | -28950 | -28660 | .33780 | .31590 |
| 1.052 | 1.790 | -28250 | -28740 | -28230 | -28230 | -29500 | -29500 | -29680 | -29510 | .36000 | .33530 |
| 1.049 | 4.238 | -28710 | -28570 | -28490 | -28060 | -29870 | -29870 | -29820 | -29340 | .38090 | .35000 |
| 1.048 | 6.482 | -28950 | -29370 | -28810 | -29450 | -30170 | -30170 | -29470 | -30840 | .40020 | .36090 |
| 1.049 | 7.340 | -29340 | -29020 | -29170 | -29740 | -31640 | -31640 | -30940 | -31710 | .40490 | .36340 |
| 1.051 | 9.446 | -30980 | -31220 | -30530 | -31470 | -33590 | -33590 | -31220 | -32570 | .41170 | .36950 |
| 1.049 | 11.487 | -33300 | -33100 | -33080 | -32690 | -36930 | -36930 | -33250 | -34280 | .41600 | .36760 |
| 1.041 | 14.452 | -35120 | -35150 | -35430 | -34530 | -40830 | -40830 | -35210 | -38120 | .40580 | .35360 |
| GRADIENT | | -.00324 | -.00288 | -.00260 | -.00254 | -.00199 | -.00199 | -.00173 | -.00136 | .00848 | .00672 |

RUN NO. 241/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 1.101 | -8.816 | -28150 | -28360 | -28180 | -26450 | -28560 | -28560 | -30580 | -30470 | .35930 | .34060 |
| 1.101 | 1.716 | -28840 | -29210 | -29230 | -29330 | -30210 | -30210 | -30790 | -30630 | .38090 | .35540 |
| 1.093 | 4.238 | -30170 | -30060 | -30930 | -31250 | -31930 | -31930 | -31590 | -32270 | .39930 | .36800 |
| 1.096 | 6.313 | -32360 | -32030 | -32090 | -32590 | -32590 | -32590 | -32960 | -33360 | .41800 | .37950 |
| 1.099 | 7.313 | -31950 | -32470 | -32210 | -31970 | -32840 | -32840 | -33260 | -33240 | .42300 | .37930 |
| 1.100 | 9.393 | -33380 | -33990 | -33620 | -33860 | -35370 | -35370 | -34370 | -34900 | .42250 | .38100 |
| 1.100 | 11.453 | -34940 | -34560 | -34940 | -35000 | -36930 | -36930 | -35050 | -34940 | .44140 | .39140 |
| 1.102 | 14.565 | -36280 | -35890 | -36200 | -36110 | -38600 | -38600 | -36280 | -35230 | .43530 | .37860 |
| GRADIENT | | -.00536 | -.00513 | -.00554 | -.00552 | -.00665 | -.00665 | -.00199 | -.00355 | .00789 | .00540 |

| | | | |
|-------|---|-----------|--------|
| SREF | = | 2690.0000 | SQ.FT. |
| LREF | = | 474.8100 | INCHES |
| BREF | = | 936.6800 | INCHES |
| SCALE | = | .0500 | |

| | | |
|-----------|-----|----|
| 1076.6800 | IN. | X0 |
| .0000 | IN. | Y0 |
| 375.0000 | IN. | Z0 |

RUN NO.

15.00

INTERVAL

01 01

0 RN/

RUN NO

| | |
|-------|----------|
| MACH | ALPHA |
| 1.199 | -4.901 |
| 1.202 | .121 |
| 1.199 | 2.659 |
| 1.199 | 5.172 |
| 1.199 | 8.230 |
| 1.198 | 10.301 |
| 1.198 | 12.361 |
| 1.196 | 15.509 |
| 1.196 | 20.515 |
| | GRADIENT |

| | |
|----------|----------|
| CP225 | CP228 |
| - .28150 | - .28150 |
| - .28730 | - .28750 |
| - .30070 | - .30160 |
| - .31180 | - .31270 |
| - .32580 | - .32360 |
| - .32530 | - .32400 |
| - .31930 | - .31760 |
| - .33980 | - .33840 |
| - .35840 | - .35720 |
| - .00235 | - .00245 |

| | |
|---------|---------|
| CP231 | CP234 |
| - 28080 | - 28230 |
| - 28680 | - 28840 |
| - 30140 | - 30180 |
| - 31190 | - 31250 |
| - 32430 | - 32420 |
| - 32390 | - 32720 |
| - 32020 | - 32160 |
| - 33810 | - 33910 |
| - 35710 | - 36040 |
| - 00251 | - 00239 |

| | |
|----------|----------|
| CP240 | CP237 |
| - .27110 | - .27110 |
| - .28900 | - .28900 |
| - .30680 | - .30680 |
| - .32210 | - .32210 |
| - .33890 | - .33890 |
| - .37670 | - .37670 |
| - .37230 | - .37230 |
| - .39010 | - .39010 |
| - .41290 | - .41290 |
| - .00456 | - .00456 |

| | |
|-------|---------|
| CP243 | - 27540 |
| - | - 28720 |
| - | - 31220 |
| - | - 32950 |
| - | - 33730 |
| - | - 37560 |
| - | - 37780 |
| - | - 38800 |
| - | - 41560 |
| - | - 00451 |

| CP12 | CP13 |
|--------|--------|
| .00898 | .00238 |
| .42900 | .37140 |
| .44120 | .37850 |
| .44270 | .38270 |
| .43490 | .38070 |
| .43440 | .37920 |
| .42610 | .37560 |
| .40150 | .37010 |
| .38490 | .36500 |
| .33480 | .35230 |

RUN NO.

5.00

INTERVAL

07 GR

Q **RN/**

RUN NC

| | |
|-------|----------|
| MACH | ALPHA |
| 1.303 | -5.142 |
| 1.300 | -2.188 |
| 1.294 | 2.457 |
| 1.296 | 4.939 |
| 1.295 | 7.015 |
| 1.296 | 8.034 |
| 1.295 | 10.096 |
| 1.293 | 12.158 |
| 1.293 | 15.304 |
| 1.288 | 20.371 |
| | GRADIENT |

| | |
|----------|----------|
| CP225 | CP228 |
| - .27950 | - .27870 |
| - .29100 | - .29390 |
| - .29820 | - .30270 |
| - .31350 | - .31020 |
| - .32160 | - .32090 |
| - .32510 | - .32440 |
| - .33200 | - .33060 |
| - .34390 | - .34050 |
| - .35660 | - .35600 |
| - .36260 | - .35390 |
| - .00437 | - .00318 |

| | |
|---------|---------|
| CP231 | CP234 |
| - 27770 | - 27860 |
| - 29250 | - 29540 |
| - 30040 | - 30140 |
| - 31200 | - 31060 |
| - 32030 | - 32100 |
| - 32540 | - 32550 |
| - 33200 | - 33580 |
| - 34290 | - 34220 |
| - 35760 | - 35620 |
| - 33330 | - 33330 |
| - 00379 | - 00598 |

| | |
|----------|----------|
| CP237 | CP240 |
| - .28770 | - .28770 |
| - .30500 | - .30500 |
| - .31550 | - .31550 |
| - .33300 | - .33300 |
| - .35760 | - .35760 |
| - .36780 | - .36780 |
| - .37870 | - .37870 |
| - .37860 | - .37860 |
| - .38930 | - .38930 |
| - .37590 | - .37590 |
| - .00545 | - .00545 |

| CP246 | CP245 |
|---------|---------|
| - 29610 | - 29080 |
| - 30900 | - 31030 |
| - 32170 | - 31920 |
| - 33740 | - 33390 |
| - 35670 | - 35390 |
| - 36780 | - 36730 |
| - 37430 | - 37980 |
| - 36930 | - 37640 |
| - 38540 | - 38860 |
| - 36610 | - 37530 |
| - 00553 | - 00459 |

| CP12 | CP13 |
|--------|---------|
| .38200 | .40110 |
| .40420 | .40470 |
| .43100 | .40440 |
| .45220 | .39890 |
| .46020 | .40030 |
| .46490 | .40670 |
| .45880 | .40110 |
| .46330 | .40250 |
| .47430 | .40800 |
| .46490 | .40900 |
| .00937 | -.00112 |

RUN NO.

0/ 5.00

INTERVAL

86. 99

Q

RUN NO

| MACH | ALPHA |
|-------|--------|
| 1.402 | -4.954 |
| 1.403 | .191 |
| 1.404 | 2.735 |
| 1.401 | 5.256 |
| 1.402 | 7.336 |
| 1.403 | 8.355 |
| 1.403 | 10.435 |
| 1.400 | 12.498 |

| | |
|----------|----------|
| CP225 | CP228 |
| - .27540 | - .27440 |
| - .29460 | - .29700 |
| - .29920 | - .29920 |
| - .31020 | - .30830 |
| - .31630 | - .31720 |
| - .31730 | - .31660 |
| - .32520 | - .32600 |
| - .32950 | - .32980 |
| - .00319 | - .00340 |

| CP231 | CP234 |
|----------|----------|
| - .27620 | - .27540 |
| - .29490 | - .29580 |
| - .29910 | - .30010 |
| - .30870 | - .30910 |
| - .31590 | - .31820 |
| - .31870 | - .31810 |
| - .32640 | - .32670 |
| - .32980 | - .33020 |
| - .00307 | - .00333 |

| CP237 | CP240 |
|----------|----------|
| - .29170 | - .29170 |
| - .30850 | - .30850 |
| - .31540 | - .31540 |
| - .31320 | - .31320 |
| - .32120 | - .32120 |
| - .32260 | - .32260 |
| - .32610 | - .32610 |
| - .32640 | - .32640 |
| - .00311 | - .00311 |

| | |
|---------|---------|
| CP243 | CP246 |
| - 30000 | - 30280 |
| - 32070 | - 31620 |
| - 32290 | - 32080 |
| - 31960 | - 31870 |
| - 33000 | - 32680 |
| - 32800 | - 32940 |
| - 33270 | - 33270 |
| - 33720 | - 33590 |
| - 00313 | - 00238 |

| CP12 | CP13 |
|--------|--------|
| .40230 | .43470 |
| .44540 | .45840 |
| .46070 | .45800 |
| .50140 | .45950 |
| .48880 | .46520 |
| .49150 | .46560 |
| .51520 | .46530 |
| .50650 | .46690 |
| .00771 | .00326 |

OAI45 TABULATED FORCE DATA

AMES 118-1-11 OAI45A 01

DATE 10 MAR 80

(E2F030) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = -10.000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 71/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|--------|--------|--------|
| .597 | -9.919 | -23220 | -20600 | -20120 |
| .598 | -5.037 | -23880 | -04280 | -04160 |
| .597 | -0.055 | -21500 | .07050 | .05620 |
| .598 | 2.472 | -21710 | .11840 | .10420 |
| .598 | 4.970 | -22820 | .15670 | .13480 |
| .597 | 7.018 | -24390 | .17390 | .14830 |
| .597 | 8.039 | -25390 | .17680 | .15100 |
| .597 | 10.092 | -26880 | .18080 | .15280 |
| .597 | 12.156 | -29710 | .18010 | .15060 |
| .597 | 15.217 | -32540 | .15740 | .12990 |
| .597 | 19.969 | -39110 | .09380 | .06820 |
| | GRADIENT | -00242 | .01716 | .01565 |

RUN NO. 111/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|--------|--------|--------|
| .794 | -9.977 | -20030 | -12370 | -10470 |
| .798 | -4.826 | -19340 | .01620 | .02340 |
| .799 | .315 | -19450 | .12840 | .12530 |
| .799 | 2.772 | -20760 | .16340 | .15310 |
| .799 | 5.393 | -20690 | .19940 | .17790 |
| .798 | 8.533 | -26500 | .21170 | .19640 |
| .797 | 10.427 | -25790 | .22590 | .19700 |
| .798 | 12.508 | -28350 | .22950 | .19820 |
| .797 | 15.579 | -34800 | .21920 | .18670 |
| .797 | 20.034 | -40440 | .17280 | .13860 |
| | GRADIENT | -00162 | .01975 | .01749 |

RUN NO. 90/ 0 RN/L = 5.07 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|--------|--------|--------|
| .902 | -4.920 | -22680 | .08500 | .09300 |
| .901 | .112 | -21240 | .17820 | .17070 |
| .900 | 2.636 | -24610 | .21200 | .19660 |
| .899 | 5.190 | -29900 | .24650 | .21510 |
| .900 | 8.267 | -32280 | .26930 | .23390 |
| .899 | 10.322 | -33970 | .27910 | .23720 |
| .898 | 12.392 | -37780 | .27960 | .23760 |
| .899 | 15.478 | -45230 | .27440 | .23560 |
| .896 | 20.509 | -50130 | .23260 | .19440 |
| | GRADIENT | -00178 | .01705 | .01396 |

0A145 TABULATED FORCE DATA
AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = -10.000
AILRON = .000 BOFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 65/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|--------|--------|
| .950 | -9.889 | -.24220 | .03180 | .05840 |
| .951 | -5.036 | -.23680 | .13440 | .13650 |
| .948 | .010 | -.21300 | .21590 | .19820 |
| .950 | 2.542 | -.25430 | .24780 | .22400 |
| .951 | 5.061 | -.28620 | .28360 | .24930 |
| .951 | 7.132 | -.33150 | .29670 | .25750 |
| .950 | 8.148 | -.34120 | .30270 | .26250 |
| .951 | 10.215 | -.35870 | .31030 | .26610 |
| .950 | 12.285 | -.40300 | .31310 | .27090 |
| .950 | 15.313 | -.47300 | .30960 | .26290 |
| .951 | 20.630 | -.52770 | .27620 | .22510 |
| | GRADIENT | -.01631 | .01260 | .01019 |

RUN NO. 246/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|-------|----------|---------|--------|--------|
| 1.051 | -.745 | -.26560 | .33420 | .31490 |
| 1.055 | 1.901 | -.25610 | .36460 | .34060 |
| 1.050 | 4.209 | -.28530 | .38060 | .34980 |
| 1.047 | 6.441 | -.29410 | .39890 | .35910 |
| 1.049 | 7.299 | -.30060 | .40480 | .36280 |
| 1.044 | 9.400 | -.32270 | .40620 | .36510 |
| 1.045 | 11.240 | -.36330 | .41180 | .36460 |
| 1.045 | 14.580 | -.39570 | .41410 | .36180 |
| | GRADIENT | -.00379 | .00942 | .00711 |

RUN NO. 240/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|-------|----------|---------|--------|--------|
| 1.102 | -5.846 | -.29300 | .29080 | .29580 |
| 1.103 | -1.331 | -.28080 | .36040 | .33710 |
| 1.103 | -.849 | -.28010 | .36280 | .34260 |
| 1.105 | 1.191 | -.28050 | .37860 | .35480 |
| 1.103 | 1.722 | -.26690 | .38160 | .35500 |
| 1.099 | 4.287 | -.29670 | .40340 | .36790 |
| 1.101 | 7.358 | -.31180 | .42180 | .37890 |
| 1.100 | 9.369 | -.33600 | .42640 | .38430 |
| 1.101 | 11.451 | -.36050 | .43940 | .39230 |
| 1.094 | 14.561 | -.39220 | .44090 | .38720 |
| | GRADIENT | -.00215 | .00768 | .00530 |

0A145 TABULATED FORCE DATA

AMES 118-1-11 0A145A 01

(E2F030) (06 MAR 80)

REFERENCE DATA

| | | | | |
|-------|---|-----------|--------|------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP |
| LREF | = | 474.8100 | INCHES | YMRP |
| BREF | = | 936.6800 | INCHES | ZMRP |
| SCALE | = | .0500 | | |

| | | | |
|---|-----------|-----|----|
| - | 1076.6800 | IN. | XO |
| - | .0000 | IN. | YO |
| - | 375.0000 | IN. | ZO |

PARAMETRIC DATA

| | | | | | |
|--------|---|--------|--------|---|---------|
| BETA | = | .000 | ELEVON | = | -10.000 |
| AILRON | = | .000 | BOFLAP | = | .000 |
| SPOBRK | = | 25.000 | RUDDER | = | .000 |
| RN/L | = | 5.000 | | | |

| RUN NO. | 84/ 0 | RN/L = | 5.04 | GRADIENT | INTERVAL = | -5.00/ | 5.00 |
|---------|-------|----------|------|----------|------------|--------|------|
| | MACH | ALPHA | | CP240 | CP12 | CP13 | |
| | 1.199 | -4.740 | | -.22460 | .33570 | .35180 | |
| | 1.200 | .260 | | -.24030 | .38530 | .36580 | |
| | 1.204 | 2.811 | | -.27400 | .40310 | .37130 | |
| | 1.200 | 5.369 | | -.28890 | .41990 | .37220 | |
| | 1.199 | 8.447 | | -.31330 | .42920 | .37770 | |
| | 1.197 | 10.524 | | -.35670 | .43450 | .38120 | |
| | 1.198 | 12.584 | | -.37410 | .44330 | .38300 | |
| | 1.202 | 15.689 | | -.39300 | .44630 | .38610 | |
| | 1.197 | 21.028 | | -.42560 | .42820 | .36800 | |
| | | GRADIENT | | -.00607 | .00906 | .00261 | |

| RUN NO. | 77/ 0 | RN/L = | 5.04 | GRADIENT INTERVAL = | -5.00/ 5.00 |
|---------|-------|----------|----------|---------------------|-------------|
| | MACH | ALPHA | CP240 | CP12 | CP13 |
| | 1.293 | -5.160 | - .25000 | .37360 | .39330 |
| | 1.307 | - .167 | - .29010 | .40990 | .41030 |
| | 1.300 | 2.403 | - .30200 | .43480 | .40970 |
| | 1.295 | 4.971 | - .32100 | .45430 | .39960 |
| | 1.295 | 7.011 | - .34330 | .46140 | .40080 |
| | 1.296 | 8.027 | - .35310 | .46560 | .40260 |
| | 1.295 | 10.092 | - .37830 | .46130 | .40210 |
| | 1.291 | 12.163 | - .38280 | .46270 | .40070 |
| | 1.294 | 15.274 | - .39790 | .47580 | .40990 |
| | | 20.524 | - .37710 | .46510 | .40930 |
| | 1.287 | GRADIENT | - .00601 | .00864 | -.00208 |

| RUN NO. | 147/ 0 | RN/L | 4.98 | GRADIENT | INTERVAL | -5.00/ 5.00 |
|---------|--------|----------|------|----------|----------|-------------|
| | MACH | ALPHA | | CP240 | CP12 | CP13 |
| | 1.402 | -4.996 | | -.28450 | .40270 | .42970 |
| | 1.403 | .131 | | -.31750 | .44480 | .45620 |
| | 1.402 | 2.765 | | -.31250 | .46600 | .45850 |
| | 1.402 | 5.218 | | -.31330 | .49440 | .45960 |
| | 1.400 | 7.302 | | -.32530 | .48900 | .46410 |
| | 1.402 | 8.316 | | -.32700 | .49110 | .46610 |
| | 1.403 | 10.413 | | -.33650 | .51270 | .46480 |
| | 1.397 | 12.522 | | -.33650 | .50670 | .46610 |
| | | GRADIENT | | -.00399 | .00816 | .00391 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

AMES 118-1-11 0A145A 01

(E2FY30) (19 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = -10.000
AILRON = .000 BOFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 0/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .597 | -9.919 | -18610 | -18890 | -18510 | -18770 | -22220 | -22220 | -22480 | -23510 | -20500 | -20120 |
| .598 | -5.037 | -18290 | -18460 | -18600 | -18460 | -23880 | -23880 | -24620 | -25510 | -04280 | -04160 |
| .598 | .055 | -18540 | -18540 | -18370 | -19060 | -21600 | -21600 | -21840 | -22300 | .07050 | .05620 |
| .598 | 2.472 | -19160 | -18850 | -18920 | -18920 | -21710 | -21710 | -22070 | -22170 | .11840 | .10420 |
| .598 | 4.970 | -19180 | -19440 | -19510 | -19540 | -22820 | -22820 | -23690 | -23650 | .15670 | .13480 |
| .597 | 7.018 | -19680 | -19420 | -19840 | -19230 | -24390 | -24390 | -25270 | -25940 | .17390 | .14830 |
| .597 | 8.039 | -19830 | -19620 | -19660 | -19900 | -25390 | -25390 | -26280 | -26970 | .17680 | .15100 |
| .597 | 10.092 | -20070 | -19520 | -20470 | -20020 | -26880 | -26880 | -28200 | -29200 | .18080 | .15280 |
| .597 | 12.156 | -20920 | -21540 | -21780 | -20940 | -29710 | -29710 | -30480 | -32890 | .18010 | .15060 |
| .597 | 15.217 | -23150 | -22600 | -23320 | -22250 | -32540 | -32540 | -32920 | -33450 | .15740 | .12990 |
| .597 | 19.969 | -27100 | -27080 | -27410 | -27390 | -39110 | -39110 | -39420 | -39320 | .09380 | .06820 |
| GRADIENT | | -00128 | -00179 | -00227 | -00095 | -00242 | -00242 | -00368 | -00308 | .01716 | .01565 |

RUN NO. 0/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .794 | -9.977 | -19840 | -19880 | -20280 | -19980 | -20030 | -20030 | -23050 | -24320 | -12370 | -10470 |
| .798 | -4.826 | -19960 | -19900 | -19640 | -19600 | -19340 | -19340 | -24580 | -26430 | .02340 | .02340 |
| .799 | .315 | -19920 | -19480 | -19350 | -19730 | -19450 | -19450 | -22940 | -23120 | .12840 | .12530 |
| .799 | 2.772 | -19790 | -19280 | -19830 | -19750 | -20760 | -20760 | -24160 | -24650 | .16340 | .15310 |
| .799 | 5.393 | -19800 | -19980 | -19410 | -19750 | -20690 | -20690 | -26370 | -26770 | .19940 | .17790 |
| .798 | 8.533 | -20090 | -20570 | -20400 | -20170 | -26500 | -26500 | -32050 | -32670 | .21170 | .19640 |
| .797 | 10.427 | -20500 | -20820 | -20990 | -20750 | -25790 | -25790 | -32080 | -32350 | .22590 | .19700 |
| .798 | 12.508 | -20990 | -21780 | -21630 | -21760 | -28350 | -28350 | -34490 | -34680 | .22950 | .19820 |
| .797 | 15.579 | -25010 | -24380 | -25590 | -25820 | -34800 | -34800 | -41310 | -41630 | .21920 | .18670 |
| .797 | 20.034 | -28630 | -29100 | -29240 | -29820 | -40440 | -40440 | -47260 | -47440 | .17280 | .13860 |
| GRADIENT | | .00020 | .00082 | -00013 | -00021 | -00162 | -00162 | .00096 | .00297 | .01975 | .01749 |

RUN NO. 0/ 0 RN/L = 5.07 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .902 | -4.920 | -19630 | -19860 | -19710 | -20340 | -22680 | -22680 | -22680 | -23380 | .08500 | .09300 |
| .901 | .112 | -19990 | -20260 | -20010 | -19950 | -21240 | -21240 | -17070 | -22110 | .17820 | .17070 |
| .900 | 2.636 | -20590 | -20230 | -20370 | -19860 | -24610 | -24610 | -25320 | -26300 | .21200 | .19680 |
| .899 | 5.190 | -20800 | -20260 | -20480 | -20740 | -29900 | -29900 | -30940 | -26300 | .24650 | .21510 |
| .900 | 8.267 | -20570 | -20980 | -20980 | -20640 | -32280 | -32280 | -33000 | -32610 | .26930 | .23390 |
| .899 | 10.322 | -21310 | -21100 | -21440 | -21890 | -33970 | -33970 | -33610 | -34070 | .27910 | .23720 |
| .898 | 12.392 | -23240 | -22780 | -23100 | -23190 | -37780 | -37780 | -38560 | -38290 | .27960 | .23760 |
| .899 | 15.478 | -25590 | -26390 | -26270 | -26530 | -45230 | -45230 | -46510 | -46510 | .27440 | .23560 |
| .896 | 20.509 | -31810 | -31570 | -31470 | -32270 | -50130 | -50130 | -50620 | -51140 | .23260 | .19440 |
| GRADIENT | | -00119 | -00053 | -00083 | -00066 | -00178 | -00178 | -00277 | -00296 | .01705 | .01396 |

OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

DATE 10 MAR 80

(E2FY30) (19 JUL 77)

PARAMETRIC DATA

BETA = .000
ELEVON = -10.000
AILRON = .000
BDFLAP = .000
SPDRK = 25.000
RUDDER = 5.000
RN/L =

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500
XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

| RUN NO. | | 0/ 0 | | RN/L = 5.00 | | GRADIENT INTERVAL = -5.00/ 5.00 | | | | | |
|----------|--------|---------|---------|-------------|---------|---------------------------------|---------|---------|---------|--------|--------|
| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
| .950 | -9.889 | -21770 | -21270 | -20990 | -21070 | -24220 | -24220 | -25040 | -25730 | .03180 | .05840 |
| .951 | -5.036 | -20890 | -21120 | -20870 | -20540 | -23680 | -23680 | -25020 | -25600 | .13440 | .13650 |
| .948 | .010 | -20160 | -20640 | -20560 | -20230 | -21300 | -21300 | -21240 | -21740 | .21590 | .19820 |
| .950 | 2.542 | -21110 | -21260 | -21190 | -21160 | -25430 | -25430 | -25390 | -26090 | .24780 | .22400 |
| .951 | 5.061 | -20740 | -20990 | -21570 | -20290 | -28620 | -28620 | -29420 | -29520 | .28360 | .24930 |
| .951 | 7.132 | -21320 | -21490 | -21560 | -21450 | -33150 | -33150 | -33650 | -34510 | .29670 | .25750 |
| .950 | 8.148 | -21690 | -21360 | -21560 | -21590 | -34120 | -34120 | -34740 | -34750 | .30270 | .26250 |
| .951 | 10.215 | -22360 | -22590 | -22560 | -21730 | -35870 | -35870 | -36250 | -36610 | .31030 | .26610 |
| .950 | 12.285 | -24530 | -24430 | -24530 | -24500 | -40300 | -40300 | -41330 | -42160 | .31310 | .27090 |
| .950 | 15.313 | -27060 | -27170 | -26990 | -27120 | -47300 | -47300 | -47450 | -48620 | .30960 | .26290 |
| .950 | 20.630 | -32000 | -31750 | -32460 | -33000 | -52770 | -52770 | -51990 | -53560 | .27620 | .22510 |
| GRADIENT | | -.00375 | -.00245 | -.00280 | -.00367 | -.01631 | -.01631 | -.01639 | -.01718 | .01260 | .01019 |

| RUN NO. | | 0 / 0 | | RN/L = 4.99 | | GRADIENT INTERVAL = -5.00/ 5.00 | | | | | |
|---------|----------|---------|---------|-------------|---------|---------------------------------|---------|---------|---------|--------|--------|
| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
| 1.102 | -5.846 | -27020 | -26740 | -26560 | -26770 | -29300 | -29300 | -32080 | -30850 | .29080 | .29680 |
| 1.103 | -1.331 | -26290 | -25770 | -25570 | -25530 | -28080 | -28080 | -30340 | -30410 | .36040 | .33710 |
| 1.103 | -.849 | -26290 | -26050 | -25810 | -25720 | -28010 | -28010 | -30170 | -29650 | .36280 | .34260 |
| 1.105 | 1.191 | -26450 | -26410 | -26170 | -26420 | -28050 | -28050 | -29740 | -29560 | .37860 | .35480 |
| 1.103 | 1.722 | -26950 | -26710 | -26510 | -26880 | -26690 | -26690 | -29880 | -30510 | .38160 | .35500 |
| 1.099 | 4.287 | -28640 | -28130 | -28910 | -29190 | -29670 | -29670 | -30700 | -30930 | .40340 | .36790 |
| 1.101 | 7.358 | -30220 | -30800 | -30400 | -30200 | -31180 | -31180 | -32650 | -31830 | .42180 | .37890 |
| 1.100 | 9.369 | -32630 | -32740 | -32590 | -33020 | -33600 | -33600 | -33790 | -33780 | .42640 | .38430 |
| 1.101 | 11.451 | -34850 | -34700 | -34760 | -35140 | -36050 | -36050 | -34990 | -34610 | .43940 | .39230 |
| 1.101 | 14.561 | -37030 | -37050 | -37030 | -36750 | -39220 | -39220 | -37150 | -36620 | .44090 | .38720 |
| 1.094 | GRADIENT | -.00407 | -.00559 | -.00563 | -.00633 | -.00215 | -.00215 | -.00052 | -.00150 | .00768 | .00530 |

| RUN NO. | | 0 / 0 | RN/L = | 5.04 | GRADIENT INTERVAL = -5.00/ 5.00 | | | | CP246 | CP12 | CP13 |
|---------|----------|---------|---------|---------|---------------------------------|---------|---------|---------|---------|--------|--------|
| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | | | |
| 1.199 | -4.740 | -25980 | -26170 | -25940 | -25970 | -22460 | -22460 | -22530 | -22490 | .33570 | .35180 |
| 1.200 | .260 | -26750 | -26980 | -26750 | -26720 | -24030 | -24030 | -23620 | -23090 | .38530 | .36580 |
| 1.204 | 2.811 | -28210 | -28280 | -28160 | -28100 | -27400 | -27400 | -27310 | -27340 | .40310 | .37130 |
| 1.200 | 5.369 | -29760 | -29750 | -29630 | -29600 | -28890 | -28890 | -28870 | -28670 | .41990 | .37220 |
| 1.199 | 8.447 | -31000 | -31280 | -31360 | -31330 | -31330 | -31330 | -31170 | -30800 | .42920 | .37770 |
| 1.197 | 10.524 | -32610 | -32320 | -32580 | -32950 | -35670 | -35670 | -35500 | -34870 | .43450 | .38120 |
| 1.198 | 12.584 | -32740 | -32300 | -32640 | -32570 | -37410 | -37410 | -37150 | -37430 | .44330 | .38300 |
| 1.198 | 15.689 | -33020 | -33070 | -33270 | -33360 | -39300 | -39300 | -39410 | -39220 | .44630 | .38610 |
| 1.202 | 21.028 | -36550 | -36410 | -36440 | -36640 | -42560 | -42560 | -42660 | -42320 | .42820 | .36800 |
| 1.197 | GRADIENT | -.00276 | -.00263 | -.00276 | -.00264 | -.00607 | -.00607 | -.00576 | -.00570 | .00906 | .00261 |

OAIW5 TABULATED FORCE DATA
AMES 11B-1-11 OAIW5A 01

(E2FY30) (19 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = 0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = -10.000
AILRON = .000 BOFLAP = .000
SPOBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 0/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 1.293 | -5.160 | -25940 | -26030 | -25650 | -25950 | -25000 | -25000 | -25170 | -25590 | .37360 | .39330 |
| 1.307 | -1.167 | -28400 | -28340 | -28170 | -28370 | -29010 | -29010 | -29200 | -29280 | .40990 | .41030 |
| 1.300 | 2.403 | -30170 | -30050 | -29670 | -29860 | -30200 | -30200 | -30320 | -30500 | .43480 | .40970 |
| 1.295 | 4.971 | -31150 | -31310 | -30850 | -30740 | -32100 | -32100 | -32270 | -32420 | .45430 | .39960 |
| 1.295 | 7.011 | -32790 | -32530 | -32460 | -32350 | -34330 | -34330 | -34110 | -34460 | .46140 | .40080 |
| 1.295 | 8.027 | -33050 | -33040 | -32900 | -32860 | -35310 | -35310 | -35400 | -35850 | .46560 | .40260 |
| 1.295 | 10.092 | -33900 | -33720 | -33670 | -33470 | -37830 | -37830 | -37540 | -37680 | .46130 | .40210 |
| 1.291 | 12.163 | -35040 | -34860 | -35040 | -35270 | -38280 | -38280 | -38430 | -38050 | .46270 | .40070 |
| 1.294 | 15.274 | -36200 | -36490 | -36380 | -36520 | -39790 | -39790 | -39540 | -39540 | .47580 | .40990 |
| 1.287 | 20.524 | -33220 | -33190 | -33140 | -33140 | -37710 | -37710 | -37310 | -37160 | .46510 | .40930 |
| | GRADIENT | -00535 | -00578 | -00522 | -00461 | -00601 | -00601 | -00597 | -00611 | .00864 | -.00208 |

RUN NO. 0/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.402 | -4.996 | -25590 | -25510 | -25350 | -25510 | -28450 | -28450 | -29600 | -29070 | .40270 | .42970 |
| 1.403 | .131 | -29070 | -28840 | -28810 | -28920 | -31750 | -31750 | -32490 | -32480 | .44480 | .45620 |
| 1.402 | 2.765 | -30080 | -29880 | -29920 | -29840 | -31250 | -31250 | -32780 | -32540 | .46600 | .45850 |
| 1.402 | 5.218 | -31090 | -30520 | -30560 | -30400 | -31330 | -31330 | -32130 | -32540 | .49440 | .45960 |
| 1.400 | 7.302 | -31990 | -32020 | -32030 | -31870 | -32530 | -32530 | -32960 | -33230 | .48900 | .46410 |
| 1.402 | 8.316 | -32340 | -32190 | -32280 | -32190 | -32700 | -32700 | -33200 | -33310 | .49110 | .46610 |
| 1.403 | 10.413 | -33370 | -33000 | -33030 | -33130 | -33650 | -33650 | -33930 | -33350 | .51270 | .46480 |
| 1.397 | 12.522 | -34170 | -34000 | -34130 | -34030 | -33650 | -33650 | -34490 | -34670 | .50670 | .46610 |
| | GRADIENT | -00592 | -00575 | -00601 | -00573 | -00399 | -00399 | -00431 | -00477 | .00816 | .00391 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

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(E2F031) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
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BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

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AILRON =
SPDRK =
RN/L =

ELEVON = -20.000
BOFLAP = .000
RUDDER = .000

PARAMETRIC DATA

RUN NO. 405/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .600 | -4.979 | -18450 | -18890 | -19170 | -18840 | -30920 | -30920 | -31730 | -32990 | -04420 | -04280 |
| .602 | .039 | -18510 | -18950 | -19460 | -18920 | -24090 | -24090 | -24480 | -24800 | .07650 | .06410 |
| .601 | 2.602 | -19780 | -18580 | -18550 | -19130 | -23090 | -23090 | -23040 | -23690 | .11680 | .10100 |
| .601 | 5.084 | -20010 | -19170 | -19240 | -19430 | -23580 | -23580 | -23650 | -23930 | .14810 | .12830 |
| .601 | 7.127 | -20160 | -19860 | -19680 | -19860 | -24120 | -24120 | -24350 | -24880 | .16340 | .14180 |
| .601 | 8.154 | -20730 | -20150 | -20400 | -20120 | -25390 | -25390 | -25300 | -25580 | .16520 | .14070 |
| .600 | 10.184 | -20810 | -20320 | -20600 | -20490 | -26440 | -26440 | -26690 | -27160 | .17910 | .14590 |
| .600 | 12.266 | -21440 | -21230 | -21920 | -21950 | -29140 | -29140 | -29540 | -29770 | .17390 | .13990 |
| .598 | 15.311 | -23840 | -23680 | -23330 | -23100 | -33170 | -33170 | -33560 | -33080 | .15180 | .11650 |
| GRADIENT | | .00153 | .00058 | .00079 | .00019 | .01078 | .01078 | .01188 | .01283 | .02163 | .01929 |

RUN NO. 409/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .802 | -5.027 | -19760 | -18960 | -19440 | -19390 | -26100 | -26100 | -26160 | -27020 | .02410 | .02340 |
| .801 | .078 | -19690 | -19230 | -18840 | -19620 | -21020 | -21020 | -20960 | -21090 | .12760 | .10990 |
| .802 | 2.515 | -20110 | -19040 | -19260 | -19780 | -21260 | -21260 | -21440 | -21090 | .16110 | .13900 |
| .801 | 5.127 | -20160 | -19180 | -19490 | -20120 | -21840 | -21840 | -22180 | -22360 | .19440 | .16770 |
| .799 | 7.197 | -21610 | -20810 | -20440 | -20810 | -23940 | -23940 | -24290 | -25220 | .21130 | .17840 |
| .799 | 8.235 | -21150 | -21020 | -21020 | -20850 | -26600 | -26600 | -26620 | -28020 | .21610 | .18240 |
| .797 | 10.465 | -22360 | -21840 | -21650 | -22170 | -29160 | -29160 | -29200 | -29330 | .22400 | .18190 |
| .797 | 12.425 | -22040 | -22790 | -22380 | -22470 | -30040 | -30040 | -30470 | -30350 | .22830 | .18220 |
| .800 | 15.474 | -23760 | -23260 | -24170 | -23950 | -35760 | -35760 | -35340 | -35350 | .21690 | .17170 |
| GRADIENT | | .00172 | .00078 | .00172 | .00066 | .00099 | .00099 | .00197 | .00057 | .01375 | .01194 |

RUN NO. 392/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .901 | -5.058 | -21380 | -21190 | -21450 | -21780 | -28430 | -28430 | -28550 | -29350 | .07350 | .08380 |
| .902 | .017 | -20460 | -20480 | -20680 | -20460 | -22570 | -22570 | -22450 | -22470 | .17100 | .15770 |
| .908 | 2.551 | -19660 | -19830 | -19540 | -19680 | -22700 | -22700 | -22220 | -22210 | .21180 | .19360 |
| .902 | 5.075 | -21310 | -21120 | -21360 | -20910 | -25170 | -25170 | -25530 | -25750 | .23420 | .21010 |
| .902 | 7.141 | -21580 | -21340 | -21470 | -21590 | -26500 | -26500 | -26480 | -26990 | .25380 | .22140 |
| .899 | 8.190 | -21830 | -21810 | -21620 | -22260 | -27590 | -27590 | -27490 | -28340 | .25710 | .22660 |
| .901 | 10.306 | -22050 | -22530 | -22500 | -23060 | -29310 | -29310 | -28840 | -30220 | .27160 | .23300 |
| .901 | 12.337 | -24900 | -24140 | -24560 | -24570 | -32640 | -32640 | -33000 | -33460 | .27500 | .23250 |
| .901 | 15.364 | -25240 | -24570 | -25950 | -26010 | -41770 | -41770 | -42310 | -42310 | .27240 | .22250 |
| GRADIENT | | .00312 | .00253 | .00444 | .00304 | .00051 | .00051 | .00090 | .00101 | .01589 | .01398 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(EPF031) (18 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
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 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
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BETA = .000 ELEVON = -20.000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 395/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|--------|---------|---------|---------|---------|--------|--------|
| .950 | -5.047 | -23160 | -23080 | -21980 | -23030 | -27310 | -27310 | -27140 | -27460 | .11980 | .13050 |
| .951 | -.014 | -21130 | -21190 | -20480 | -21360 | -21520 | -21520 | -21060 | -21110 | .20940 | .19660 |
| .952 | 2.549 | -21360 | -21440 | -21230 | -21120 | -22220 | -22220 | -22260 | -22190 | .24410 | .22350 |
| .952 | 5.103 | -22040 | -22140 | -21530 | -21420 | -23920 | -23920 | -23740 | -23810 | .26800 | .24050 |
| .948 | 7.143 | -23150 | -23170 | -22990 | -23300 | -26140 | -26140 | -26370 | -26050 | .28390 | .24870 |
| .949 | 8.194 | -23620 | -23640 | -23720 | -23870 | -27780 | -27780 | -27980 | -27860 | .28850 | .25660 |
| .947 | 10.281 | -24630 | -24840 | -24890 | -25470 | -30780 | -30780 | -30720 | -30570 | .29640 | .25610 |
| .940 | 12.739 | -26340 | -26100 | -26570 | -26600 | -34420 | -34420 | -35040 | -35240 | .29900 | .25190 |
| .947 | 13.225 | -26110 | -26390 | -26390 | -26600 | -36020 | -36020 | -36280 | -37150 | .30600 | .25920 |
| .948 | 16.252 | -27690 | -27230 | -27660 | -27330 | -44160 | -44160 | -44250 | -44630 | .30000 | .25050 |
| | GRADIENT | -.00090 | -.00098 | -.00293 | .00094 | -.00273 | -.00273 | -.00468 | -.00421 | .01354 | .01050 |

RUN NO. 429/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 1.199 | -5.078 | -24520 | -24350 | -24320 | -24500 | -20410 | -20410 | -20170 | -20210 | .33270 | .34280 |
| 1.201 | -.066 | -26000 | -25830 | -25580 | -25690 | -20820 | -20820 | -20000 | -20120 | .38340 | .35170 |
| 1.203 | 2.544 | -27230 | -27270 | -27090 | -27300 | -21980 | -21980 | -21450 | -21140 | .40330 | .35840 |
| 1.199 | 5.087 | -29070 | -29090 | -28820 | -29090 | -24270 | -24270 | -23520 | -23340 | .41420 | .35960 |
| 1.198 | 7.180 | -29450 | -29770 | -29550 | -29690 | -26030 | -26030 | -25620 | -24850 | .42470 | .36190 |
| 1.199 | 8.232 | -29400 | -29570 | -29390 | -29280 | -25840 | -25840 | -25480 | -25600 | .42890 | .36610 |
| 1.199 | 10.326 | -29820 | -29980 | -29990 | -29980 | -29040 | -29040 | -28760 | -28370 | .43960 | .36800 |
| 1.199 | 12.353 | -30280 | -30230 | -30380 | -30790 | -30920 | -30920 | -30650 | -30290 | .44150 | .36900 |
| 1.188 | 15.364 | -35170 | -33870 | -34130 | -34150 | -37200 | -37200 | -37350 | -37410 | .43250 | .35790 |
| | GRADIENT | -.00471 | -.00552 | -.00579 | -.00617 | -.00444 | -.00444 | -.00556 | -.00391 | .00762 | .00257 |

RUN NO. 426/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|
| 1.300 | -5.078 | -23910 | -23380 | -23410 | -23430 | -22890 | -22890 | -23070 | -23130 | .37460 | .38420 |
| 1.300 | -.041 | -25800 | -25710 | -25480 | -25510 | -23400 | -23400 | -23100 | -22910 | .40520 | .39030 |
| 1.300 | 2.539 | -27510 | -27110 | -27000 | -27020 | -23950 | -23950 | -23730 | -23490 | .42700 | .38690 |
| 1.297 | 5.072 | -29700 | -28940 | -28850 | -29010 | -25830 | -25830 | -25670 | -25630 | .44150 | .38400 |
| 1.296 | 7.177 | -29330 | -28760 | -29100 | -29250 | -26990 | -26990 | -26660 | -25970 | .45100 | .38470 |
| 1.295 | 8.210 | -29260 | -29250 | -29260 | -29340 | -27450 | -27450 | -27290 | -27290 | .45210 | .38970 |
| 1.294 | 10.287 | -30280 | -30100 | -30160 | -30250 | -30070 | -30070 | -30400 | -30040 | .46360 | .38620 |
| 1.294 | 12.296 | -31740 | -31590 | -31650 | -31630 | -32450 | -32450 | -32510 | -32510 | .46580 | .38660 |
| 1.294 | 15.354 | -35720 | -35510 | -35440 | -35540 | -37170 | -37170 | -37380 | -37200 | .46930 | .39200 |
| 1.294 | GRADIENT | -.00663 | -.00543 | -.00589 | -.00585 | -.00213 | -.00213 | -.00244 | -.00225 | .00845 | -.00132 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1694

AMES 118-1-11 OAI45A 01

(E2F031) (16 JUL 77)

REFERENCE DATA

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BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA =
AILRON =
SPDBRK =
RN/L =

ELEVON = -20.000
BDFLAP = .000
RUDDER = .000

.000
25.000
5.000

RUN NO. 417/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.385 | -5.007 | -22030 | -21640 | -21500 | -21790 | -21250 | -21250 | -21060 | -20970 | .40490 | .43550 |
| 1.391 | .056 | -23480 | -23430 | -23400 | -23330 | -20980 | -20980 | -20290 | -20380 | .44100 | .44150 |
| 1.389 | 2.615 | -25260 | -25000 | -24860 | -24900 | -21790 | -21790 | -21530 | -21080 | .45840 | .44720 |
| 1.388 | 5.126 | -27140 | -26870 | -26810 | -26750 | -23930 | -23930 | -23740 | -23480 | .48170 | .44350 |
| 1.387 | 7.254 | -28030 | -27300 | -27450 | -27310 | -25260 | -25260 | -25060 | -24630 | .48660 | .45140 |
| 1.386 | 8.294 | -27940 | -27870 | -27630 | -27310 | -25890 | -25890 | -25630 | -25510 | .49250 | .45730 |
| 1.382 | 10.341 | -29050 | -28680 | -28870 | -28850 | -28730 | -28730 | -28780 | -28410 | .50320 | .44710 |
| 1.380 | 12.361 | -31580 | -31130 | -31070 | -31210 | -31250 | -31250 | -31250 | -31230 | .50350 | .44340 |
| 1.383 | 15.399 | -34080 | -33290 | -33250 | -33370 | -33660 | -33660 | -33830 | -33790 | .50840 | .45300 |
| | GRADIENT | -00696 | -00614 | -00571 | -00614 | -00317 | -00317 | -00485 | -00274 | .00680 | .00223 |

AMES 118-1-11 OAI45A 01

(E2F032) (16 JUL 77)

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BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA =
AILRON =
SPDBRK =
RN/L =

ELEVON = -30.000
BDFLAP = .000
RUDDER = .000

.000
25.000
5.000

RUN NO. 406/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| .600 | -4.915 | -19350 | -19260 | -19610 | -19610 | -28380 | -28380 | -28350 | -29300 | -.04080 | -.04200 |
| .600 | .061 | -19240 | -19050 | -19080 | -19220 | -22870 | -22870 | -22520 | -22960 | .07850 | .06290 |
| .598 | 2.671 | -19740 | -19480 | -19530 | -19390 | -21200 | -21200 | -21240 | -21270 | .12020 | .10370 |
| .599 | 4.993 | -20490 | -20210 | -20320 | -20110 | -21840 | -21840 | -21530 | -21790 | .14810 | .12760 |
| .599 | 6.990 | -20930 | -20140 | -20460 | -20250 | -22160 | -22160 | -21860 | -22420 | .16370 | .14290 |
| .598 | 7.990 | -21730 | -20940 | -21220 | -21590 | -23360 | -23360 | -23180 | -23830 | .16760 | .14270 |
| .598 | 10.103 | -21970 | -21390 | -21990 | -22270 | -24670 | -24670 | -24970 | -24850 | .17570 | .14700 |
| .598 | 11.990 | -22690 | -22160 | -22110 | -22720 | -27700 | -27700 | -28050 | -28630 | .17780 | .14240 |
| .596 | 15.027 | -24010 | -23400 | -23710 | -23640 | -31770 | -31770 | -31590 | -32170 | .15820 | .12090 |
| | GRADIENT | -00106 | -00086 | -00060 | -00036 | -00713 | -00713 | -00728 | -00810 | .01937 | .01746 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(E2F032) (16 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

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 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = -30.000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 410/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|
| .800 | -5.011 | -20770 | -20120 | -20730 | -20440 | -24910 | -24910 | -25760 | -25590 | .02300 | .02410 |
| .799 | .051 | -19540 | -18960 | -19370 | -19520 | -20980 | -20980 | -21050 | -20590 | .13040 | .11120 |
| .801 | 2.562 | -19570 | -19420 | -19000 | -19570 | -21160 | -21160 | -19750 | -19710 | .16650 | .14420 |
| .799 | 5.077 | -20710 | -20150 | -20150 | -20540 | -22140 | -22140 | -21280 | -21050 | .19550 | .16760 |
| .800 | 7.135 | -21430 | -21300 | -21530 | -21380 | -22170 | -22170 | -22910 | -21890 | .20750 | .17730 |
| .799 | 8.176 | -22060 | -21750 | -21250 | -22080 | -23170 | -23170 | -26990 | -22820 | .21620 | .18390 |
| .798 | 10.260 | -23010 | -22590 | -22610 | -23110 | -27210 | -27210 | -26990 | -27230 | .22630 | .18450 |
| .797 | 12.328 | -23170 | -23150 | -23620 | -23880 | -29660 | -29660 | -29950 | -29940 | .23070 | .18470 |
| .797 | 15.372 | -24800 | -24770 | -24630 | -25400 | -32680 | -32680 | -32920 | -33200 | .21750 | .17580 |
| | GRADIENT | -20012 | -200183 | .00147 | -200020 | .00410 | .00410 | .00518 | .00350 | .01438 | .01314 |

RUN NO. 391/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|
| .900 | -5.355 | -22780 | -22950 | -22660 | -22830 | -28950 | -28950 | -28260 | -28840 | .07340 | .08310 |
| .901 | .027 | -21900 | -22130 | -21900 | -21950 | -23740 | -23740 | -23520 | -23310 | .17400 | .16300 |
| .903 | 2.544 | -22580 | -22290 | -22220 | -22120 | -22840 | -22840 | -22520 | -22870 | .21170 | .19260 |
| .903 | 5.069 | -22540 | -22510 | -21910 | -22030 | -23030 | -23030 | -23150 | -23510 | .24020 | .21470 |
| .902 | 7.149 | -22540 | -22950 | -22860 | -22570 | -24830 | -24830 | -24960 | -24430 | .25510 | .22430 |
| .900 | 8.195 | -22810 | -22830 | -23250 | -23240 | -26040 | -26040 | -25510 | -26120 | .26100 | .23170 |
| .897 | 10.245 | -23880 | -23630 | -24390 | -24030 | -26380 | -26380 | -28830 | -28910 | .26630 | .23140 |
| .900 | 12.334 | -24620 | -24090 | -24380 | -24410 | -29810 | -29810 | -30490 | -30070 | .27500 | .23260 |
| .900 | 15.369 | -26260 | -25800 | -27090 | -27510 | -33820 | -33820 | -33720 | -34250 | .27570 | .22720 |
| | GRADIENT | -200270 | -200064 | -200127 | -200068 | .00358 | .00358 | .00397 | .00175 | .01498 | .01172 |

RUN NO. 396/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|
| .948 | -5.067 | -23830 | -23380 | -23750 | -23550 | -27420 | -27420 | -26960 | -27330 | .11820 | .12950 |
| .949 | -4.312 | -22560 | -22850 | -22920 | -23250 | -26640 | -26640 | -26450 | -26480 | .13250 | .14050 |
| .950 | .014 | -22440 | -23050 | -23210 | -22970 | -23210 | -23210 | -23180 | -23160 | .20910 | .19640 |
| .952 | 2.537 | -23230 | -23390 | -23010 | -23130 | -23100 | -23100 | -23290 | -23160 | .24440 | .22240 |
| .952 | 5.068 | -23370 | -22920 | -23170 | -23470 | -23870 | -23870 | -23720 | -23690 | .26790 | .24020 |
| .952 | 7.127 | -23570 | -23270 | -22930 | -23470 | -25020 | -25020 | -24210 | -24360 | .28810 | .25270 |
| .949 | 8.181 | -23680 | -24020 | -24100 | -24070 | -26180 | -26180 | -25950 | -25870 | .28980 | .25750 |
| .948 | 10.257 | -24790 | -25170 | -25110 | -27730 | -27730 | -27730 | -28220 | -28140 | .29990 | .26040 |
| .950 | 12.340 | -25840 | -25630 | -25690 | -25690 | -30320 | -30320 | -31250 | -30660 | .30660 | .26350 |
| .948 | 15.388 | -28190 | -28450 | -28600 | -28770 | -35180 | -35180 | -35330 | -34800 | .30540 | .25330 |
| | GRADIENT | -200084 | -200075 | -200019 | -200023 | .00547 | .00547 | .00493 | .00515 | .01649 | .01206 |

(E2F032) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

BETA = .000 ELEVON = -30.000
AILRON = .000 BOFLAP = .000
SPOBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 430/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 1.199 | -5.156 | -24550 | -23590 | -23220 | -23170 | -19250 | -19250 | -18800 | -18870 | .33140 | .34210 |
| 1.216 | -.053 | -26670 | -25860 | -25670 | -25610 | -21720 | -21720 | -20980 | -20720 | .38900 | .35970 |
| 1.207 | 2.542 | -28750 | -27990 | -27930 | -27930 | -21880 | -21880 | -21110 | -20780 | .40410 | .36040 |
| 1.200 | 5.103 | -30050 | -29610 | -29500 | -29590 | -23270 | -23270 | -23380 | -22090 | .41550 | .36180 |
| 1.199 | 7.185 | -31160 | -30520 | -30440 | -30750 | -24400 | -24400 | -23590 | -23470 | .42650 | .36300 |
| 1.199 | 8.259 | -31590 | -31090 | -30990 | -31230 | -25630 | -25630 | -24870 | -24500 | .42860 | .36630 |
| 1.195 | 10.284 | -32650 | -32250 | -32250 | -32050 | -28200 | -28200 | -27800 | -27730 | .43580 | .36550 |
| 1.193 | 12.245 | -31650 | -31210 | -31490 | -31550 | -29460 | -29460 | -29430 | -29080 | .43740 | .36440 |
| 1.187 | 15.258 | -34140 | -33020 | -33350 | -33520 | -33120 | -33120 | -33600 | -33690 | .43370 | .35920 |
| | GRADIENT | -.00801 | -.00821 | -.00871 | -.00894 | -.00062 | -.00062 | -.00050 | -.00023 | .00582 | .00027 |

RUN NO. 425/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|---------|---------|---------|---------|--------|--------|--------|--------|--------|---------|
| 1.297 | -5.074 | -23500 | -22400 | -22400 | -22250 | -20190 | -20190 | -19850 | -20000 | .37620 | .38600 |
| 1.295 | -.059 | -26120 | -25290 | -25360 | -25110 | -23080 | -23080 | -22450 | -22770 | .40580 | .38980 |
| 1.298 | 2.504 | -27600 | -27220 | -27010 | -26890 | -22570 | -22570 | -22450 | -22090 | .42840 | .38920 |
| 1.297 | 5.048 | -28900 | -28090 | -28450 | -28520 | -23760 | -23760 | -23470 | -22930 | .44400 | .38620 |
| 1.295 | 7.132 | -30440 | -29910 | -29930 | -29820 | -25100 | -25100 | -24350 | -24150 | .45430 | .38820 |
| 1.296 | 8.194 | -31080 | -30420 | -30450 | -30740 | -25760 | -25760 | -25050 | -24860 | .45730 | .39170 |
| 1.293 | 10.286 | -32350 | -32000 | -32040 | -32140 | -28910 | -28910 | -28350 | -28060 | .46220 | .38710 |
| 1.297 | 12.301 | -32810 | -32710 | -32740 | -32770 | -30690 | -30690 | -30480 | -30290 | .46690 | .38950 |
| 1.295 | 15.339 | -37400 | -24640 | -26600 | -22230 | -36350 | -36350 | -36360 | .00000 | .47120 | .39410 |
| | GRADIENT | -.00577 | -.00753 | -.00644 | -.00695 | .00199 | .00199 | .00187 | .00265 | .00882 | -.00023 |

RUN NO. 424/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 1.400 | -5.098 | -21650 | -20750 | -20770 | -20660 | -19800 | -19800 | -19470 | -19550 | .40230 | .43130 |
| 1.405 | -.047 | -24920 | -24580 | -24610 | -24570 | -21240 | -21240 | -20890 | -20880 | .44590 | .44030 |
| 1.405 | 2.518 | -26660 | -26310 | -26270 | -26200 | -22570 | -22570 | -22030 | -20590 | .46060 | .44690 |
| 1.403 | 5.044 | -28060 | -27620 | -27520 | -27520 | -22570 | -22570 | -22030 | -21840 | .48040 | .44770 |
| 1.401 | 7.129 | -28940 | -28600 | -28510 | -28360 | -23570 | -23570 | -23010 | -22610 | .49590 | .45260 |
| 1.400 | 8.183 | -29700 | -29590 | -29540 | -29520 | -24030 | -24030 | -23400 | -23200 | .48980 | .46270 |
| 1.398 | 10.240 | -30750 | -30310 | -30510 | -30480 | -26600 | -26600 | -25970 | -25890 | .50210 | .45290 |
| 1.399 | 12.285 | -30640 | -30310 | -30360 | -30540 | -28250 | -28250 | -27960 | -27650 | .50220 | .45080 |
| 1.400 | 15.327 | -34100 | -33670 | -33700 | -33710 | -33010 | -33010 | -33020 | -32830 | .50573 | .45990 |
| | GRADIENT | -.00678 | -.00674 | -.00647 | -.00635 | -.00078 | -.00078 | .00035 | .00113 | .00573 | .00335 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1697

AMES 118-1-11 0A145A 01

(E2F033) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
AILRON = .000 BOFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 261/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP240 | CP12 | CP13 |
|------|----------|---------|--------|--------|
| .600 | -30.001 | -.21640 | .17260 | .16060 |
| .599 | -19.959 | -.24220 | .17550 | .15990 |
| .600 | -15.001 | -.24910 | .17490 | .16080 |
| .599 | -9.929 | -.24790 | .17190 | .15660 |
| .599 | -5.990 | -.23230 | .17400 | .15720 |
| .599 | -3.980 | -.22730 | .17790 | .16060 |
| .599 | -1.972 | -.22640 | .17310 | .15970 |
| .599 | .015 | -.22340 | .17600 | .16280 |
| .599 | 1.964 | -.23320 | .17890 | .16000 |
| .599 | 3.939 | -.24570 | .17860 | .16270 |
| .599 | 5.890 | -.26910 | .17370 | .16230 |
| .599 | 9.908 | -.30670 | .17470 | .16120 |
| .599 | 14.678 | -.33860 | .18060 | .16320 |
| | GRADIENT | -.00220 | .00036 | .00028 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

AMES 118-1-11 0A145A 01

(EF034) (06 MAR 80)

REFERENCE DATA

SREF = 2630.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 BETA = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = .000 RUDDER = .000
 RN/L = 5.000

RUN NO. 58/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP240 | CP12 | CP13 |
|------|----------|---------|--------|--------|
| .599 | -10.101 | -21950 | .16250 | .13840 |
| .599 | -8.095 | -22540 | .15850 | .13510 |
| .599 | -6.046 | -22700 | .15880 | .13510 |
| .599 | -4.011 | -22930 | .15910 | .13390 |
| .598 | -2.987 | -24000 | .15210 | .12830 |
| .598 | -2.017 | -23570 | .15790 | .13280 |
| .598 | -.991 | -23830 | .15730 | .13260 |
| .598 | -.075 | -24040 | .15810 | .13300 |
| .597 | .975 | -24650 | .15760 | .13490 |
| .597 | 1.975 | -25570 | .15910 | .13460 |
| .597 | 2.954 | -26380 | .15830 | .13770 |
| .597 | 3.935 | -28330 | .15920 | .13320 |
| .597 | 5.909 | -31000 | .15990 | .13390 |
| .597 | 8.130 | -34010 | .16020 | .13540 |
| .598 | 10.064 | -35610 | .16100 | .13980 |
| | GRADIENT | -.00564 | .00036 | .00052 |

RUN NO. 105/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP240 | CP12 | CP13 |
|------|----------|---------|--------|--------|
| .799 | -10.182 | -19460 | .19910 | .18400 |
| .800 | -8.099 | -19310 | .19930 | .18620 |
| .800 | -6.164 | -19850 | .20740 | .18550 |
| .799 | -4.110 | -19540 | .20710 | .18830 |
| .799 | -3.053 | -20000 | .20620 | .18640 |
| .800 | -2.077 | -19580 | .20710 | .18890 |
| .800 | -1.069 | -20810 | .20840 | .18740 |
| .799 | -.031 | -21490 | .20530 | .18380 |
| .800 | .936 | -20430 | .21020 | .19040 |
| .799 | 1.923 | -20660 | .20740 | .18640 |
| .800 | 2.944 | -20220 | .21120 | .19040 |
| .799 | 3.960 | -23300 | .20790 | .18660 |
| .799 | 5.949 | -25980 | .20680 | .18840 |
| .799 | 8.001 | -30180 | .20730 | .18680 |
| .799 | 10.055 | -29730 | .21440 | .19320 |
| | GRADIENT | -.00291 | .00034 | .00005 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BOFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDRK = 25.000 RUDDER = .000
 SCALE = .0500

PARAMETRIC DATA

RUN NO. 104/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP240 | CP12 | CP13 |
|------|----------|---------|--------|--------|
| .899 | -10.207 | -.27710 | .23310 | .21650 |
| .901 | -8.103 | -.20540 | .23440 | .21810 |
| .900 | -6.167 | -.20490 | .23700 | .21840 |
| .900 | -4.110 | -.25370 | .23660 | .21650 |
| .900 | -3.055 | -.25130 | .23930 | .22030 |
| .900 | -2.074 | -.27890 | .23840 | .21700 |
| .900 | -1.069 | -.27380 | .23960 | .21980 |
| .900 | -.031 | -.28210 | .23880 | .21890 |
| .899 | .934 | -.28140 | .23900 | .21870 |
| .900 | 1.942 | -.27690 | .23700 | .21810 |
| .899 | 2.958 | -.27400 | .24080 | .21970 |
| .900 | 3.975 | -.29440 | .24070 | .21800 |
| .899 | 5.950 | -.31900 | .24560 | .22290 |
| .900 | 8.006 | -.30890 | .24400 | .22150 |
| .900 | 10.067 | -.30530 | .24320 | .22010 |
| | GRADIENT | -.00388 | .00029 | .00009 |

RUN NO. 67/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .952 | -10.077 | -.29360 | .28380 | .24750 |
| .951 | -8.071 | -.31370 | .28360 | .24730 |
| .952 | -6.022 | -.32810 | .28600 | .24920 |
| .953 | -4.003 | -.32830 | .28750 | .25160 |
| .951 | -2.954 | -.33590 | .28280 | .24640 |
| .953 | -1.993 | -.32790 | .28740 | .25200 |
| .952 | -1.029 | -.33970 | .28520 | .24940 |
| .952 | -.091 | -.31830 | .28440 | .24750 |
| .953 | .904 | -.35200 | .28530 | .24910 |
| .952 | 1.937 | -.35540 | .28420 | .24710 |
| .952 | 2.920 | -.36100 | .28450 | .24800 |
| .953 | 3.895 | -.36310 | .28730 | .25050 |
| .953 | 5.914 | -.36520 | .28460 | .24880 |
| .953 | 8.132 | -.35620 | .28710 | .25300 |
| .952 | 10.055 | -.36590 | .28610 | .25090 |
| | GRADIENT | -.00477 | -.00004 | -.00017 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

AMES 118-1-11 0A145A 01

PAGE 1700

(E2F034) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
AILRON = .000 BOFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 437/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP240 | CP12 | CP13 |
|-------|----------|---------|--------|--------|
| 1.099 | -9.974 | -.30400 | .39550 | .35740 |
| 1.101 | -7.958 | -.31630 | .39830 | .35890 |
| 1.101 | -6.005 | -.33050 | .39970 | .35850 |
| 1.101 | -3.989 | -.34390 | .39580 | .35660 |
| 1.101 | -2.940 | -.34260 | .39700 | .35910 |
| 1.101 | -1.982 | -.34740 | .39720 | .35670 |
| 1.101 | -.989 | -.34900 | .39900 | .35790 |
| 1.101 | .020 | -.34950 | .39940 | .35960 |
| 1.101 | 1.008 | -.35420 | .39670 | .35950 |
| 1.102 | 2.004 | -.36100 | .40010 | .35690 |
| 1.101 | 3.033 | -.36530 | .39670 | .35730 |
| 1.101 | 4.024 | -.36280 | .39800 | .36000 |
| 1.100 | 5.985 | -.37130 | .39770 | .35710 |
| 1.100 | 8.013 | -.37000 | .39910 | .35950 |
| 1.100 | 10.074 | -.36630 | .39820 | .35780 |
| 1.100 | GRADIENT | -.00294 | .00019 | .00017 |

RUN NO. 88/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP240 | CP12 | CP13 |
|-------|----------|---------|--------|--------|
| 1.199 | -10.208 | -.27900 | .42460 | .37490 |
| 1.199 | -8.123 | -.30330 | .42530 | .37580 |
| 1.199 | -6.177 | -.32230 | .42510 | .37440 |
| 1.198 | -4.125 | -.32980 | .42400 | .37280 |
| 1.198 | -3.069 | -.32890 | .42520 | .37560 |
| 1.198 | -2.096 | -.33880 | .42470 | .37180 |
| 1.199 | -1.085 | -.33620 | .42460 | .37440 |
| 1.200 | -.048 | -.34080 | .42640 | .37440 |
| 1.199 | .917 | -.34040 | .42590 | .37500 |
| 1.198 | 1.909 | -.34320 | .42430 | .37340 |
| 1.199 | 2.933 | -.34040 | .42680 | .37550 |
| 1.199 | 3.933 | -.34070 | .42630 | .37530 |
| 1.199 | 6.176 | -.34020 | .42700 | .37550 |
| 1.199 | 7.980 | -.34580 | .42640 | .37520 |
| 1.198 | 10.028 | -.33960 | .42590 | .37540 |
| 1.198 | GRADIENT | -.00151 | .00024 | .00023 |

0A145 TABULATED FORCE DATA

AMES 118-1-11 0A145A 01

(EZF034) (05 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO

LREF = 474.8100 INCHES YMRP = .0000 IN. YO

BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO

SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000

AIRLON = .000 BDFLAP = .000

SPDBRK = 25.000 RUDDER = .000

RN/L = 5.000

RUN NO. 80/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|---------|
| 1.299 | -10.070 | -.31750 | .45440 | .40110 |
| 1.298 | -8.047 | -.32640 | .45540 | .40120 |
| 1.299 | -6.019 | -.32880 | .45650 | .40200 |
| 1.298 | -3.995 | -.32990 | .45590 | .40140 |
| 1.299 | -2.942 | -.33000 | .45620 | .40210 |
| 1.299 | -1.973 | -.33670 | .45600 | .40130 |
| 1.299 | -.971 | -.33920 | .45630 | .40200 |
| 1.300 | -.055 | -.34000 | .45680 | .40200 |
| 1.298 | 1.028 | -.34410 | .45500 | .40020 |
| 1.298 | 2.027 | -.34920 | .45490 | .40040 |
| 1.298 | 3.027 | -.35100 | .45500 | .40050 |
| 1.298 | 4.029 | -.35500 | .45510 | .39990 |
| 1.297 | 6.028 | -.35700 | .45420 | .39830 |
| 1.297 | 8.232 | -.34640 | .45480 | .39960 |
| 1.296 | 10.133 | -.33490 | .45500 | .39870 |
| | GRADIENT | -.00322 | -.00017 | -.00024 |

RUN NO. 151/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP240 | CP12 | CP13 |
|-------|----------|---------|--------|--------|
| 1.402 | -10.205 | -.31270 | .48530 | .45830 |
| 1.404 | -8.123 | -.31320 | .48920 | .45020 |
| 1.404 | -6.172 | -.31320 | .48740 | .45810 |
| 1.403 | -4.119 | -.31560 | .48730 | .45680 |
| 1.403 | -3.050 | -.31320 | .48970 | .45970 |
| 1.403 | -2.087 | -.31480 | .48940 | .45940 |
| 1.402 | -1.072 | -.31550 | .48750 | .45830 |
| 1.403 | -.039 | -.31750 | .48830 | .45810 |
| 1.403 | .932 | -.31680 | .49030 | .45880 |
| 1.402 | 1.912 | -.32010 | .48980 | .45780 |
| 1.402 | 2.931 | -.32040 | .49160 | .45940 |
| 1.401 | 3.940 | -.32490 | .48860 | .45810 |
| 1.401 | 5.916 | -.32290 | .49070 | .45790 |
| 1.401 | 7.958 | -.32270 | .49300 | .45990 |
| 1.401 | 10.008 | -.32340 | .49320 | .45950 |
| | GRADIENT | -.00117 | .00024 | .00003 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

AMES 118-1-11 0A145A 01

PAGE 1702

(E2FY34) (19 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8100 INCHES YMRP = .0000 IN. Y0
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
SCALE = .0500

ALPHA =
ATLRON =
SPDBRK =
RN/L =

5.000 BETA =
.000 BOFLAP =
25.000 RUDDER =
5.000

PARAMETRIC DATA

| RUN NO. | | 0/ 0 | RN/L = 5.01 | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------|---------|---------|-------------|---------------------------------|---------|
| MACH | ELEVON | CP225 | CP228 | CP231 | CP234 |
| .599 | -10.101 | -19020 | -19020 | -18950 | -18830 |
| .599 | -8.095 | -19580 | -19420 | -19610 | -19630 |
| .599 | -6.046 | -19690 | -19930 | -19970 | -19500 |
| .599 | -4.011 | -19930 | -19930 | -20030 | -20220 |
| .598 | -2.987 | -20310 | -19820 | -20170 | -20150 |
| .598 | -2.017 | -20940 | -20450 | -20330 | -20450 |
| .598 | -.991 | -20610 | -20870 | -21130 | -20680 |
| .598 | -.075 | -20540 | -20490 | -20280 | -20700 |
| .597 | 1.975 | -20870 | -20730 | -20950 | -24040 |
| .597 | 2.954 | -21630 | -21340 | -21080 | -21010 |
| .597 | 3.935 | -21620 | -21300 | -21080 | -21460 |
| .597 | 5.909 | -22850 | -21620 | -21980 | -28330 |
| .597 | 8.130 | -23910 | -23700 | -22400 | -28630 |
| .598 | 10.064 | -24970 | -24290 | -24850 | -31000 |
| GRADIENT | | -.00198 | -.00197 | -.00196 | -.00168 |

| RUN NO. | | 0/ 0 | RN/L = 4.97 | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------|---------|---------|-------------|---------------------------------|---------|
| MACH | ELEVON | CP225 | CP228 | CP231 | CP234 |
| .799 | -10.182 | -19280 | -19340 | -19240 | -19590 |
| .800 | -8.099 | -19390 | -19970 | -19860 | -19370 |
| .800 | -6.164 | -19670 | -20170 | -19520 | -19860 |
| .799 | -4.110 | -20460 | -20610 | -20650 | -20310 |
| .799 | -3.053 | -20700 | -20100 | -20850 | -20720 |
| .800 | -2.077 | -20490 | -20580 | -21090 | -20600 |
| .800 | -1.069 | -21300 | -20480 | -20820 | -20410 |
| .799 | -.031 | -21390 | -20740 | -21000 | -21150 |
| .800 | 1.936 | -21080 | -21130 | -21230 | -21380 |
| .799 | 2.944 | -21360 | -21760 | -21310 | -22320 |
| .800 | 3.960 | -21800 | -21800 | -21060 | -22220 |
| .799 | 5.949 | -22120 | -21480 | -22550 | -23300 |
| .799 | 8.001 | -23350 | -24240 | -25980 | -25980 |
| .799 | 10.055 | -24700 | -24330 | -30180 | -30180 |
| GRADIENT | | -.00190 | -.00192 | -.00291 | -.00239 |

CP237
-.21950
-.21950
-.22540
-.22700
-.22930
-.23020
-.24000
-.23570
-.23830
-.24040
-.24590
-.25410
-.26450
-.27500
-.28380
-.29400
-.31160
-.34360
-.38020
-.39560
-.00868

CP246
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-.23990
-.24050
-.24020
-.25110
-.24880
-.25720
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-.27270
-.28450
-.29860
-.31160
-.34360
-.38020
-.39560
-.00868

CP243
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-.38020
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CP240
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-.23570
-.23830
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-.24590
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-.31160
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-.38020
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-.00868

CP237
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-.21950
-.22540
-.22700
-.22930
-.23020
-.24000
-.23570
-.23830
-.24040
-.24590
-.25410
-.26450
-.27500
-.28380
-.29400
-.31160
-.34360
-.38020
-.39560
-.00868

CP234
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-.19500
-.20220
-.20150
-.20450
-.20680
-.20700
-.20950
-.21010
-.21460
-.28330
-.28630
-.31000
-.34010
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-.00564

CP231
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-.20170
-.20330
-.21130
-.20280
-.20730
-.21080
-.21980
-.22400
-.23910
-.24850
-.00196

CP228
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-.19930
-.19930
-.19820
-.20450
-.20870
-.20490
-.20730
-.21340
-.21620
-.22540
-.23700
-.24290
-.00197

CP225
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-.19580
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-.20870
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-.21620
-.22850
-.23910
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CP12
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CP246
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CP243
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CP240
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CP237
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-.19580
-.20810
-.21490
-.20430
-.20660
-.20220
-.23300
-.25980
-.30180
-.00291

CP234
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CP231
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CP228
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CP225
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-.26730
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CP13
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.18830
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.18840
.18680
.19320
.00005

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

AMES 118-1-11 OAI45A 01

(E2FY34) (19 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. X0
YMRP = .0000 IN. Y0
ZMRP = 375.0000 IN. Z0

PARAMETRIC DATA

ALPHA =
A1LRON =
SPDBRK =
RN/L =

BETA =
BOFLAP =
RUDDER =

RUN NO. 0/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| .899 | -10.207 | -19870 | -19970 | -20550 | -20370 | -27710 | -27710 | -28380 | -28910 | .23310 | .21650 |
| .901 | -8.103 | -20120 | -19820 | -19730 | -20310 | -20540 | -20540 | -23580 | -28120 | .23440 | .21810 |
| .900 | -6.167 | -20750 | -20540 | -20790 | -20420 | -20490 | -20490 | -25420 | -26110 | .23700 | .21840 |
| .900 | -4.110 | -21300 | -21300 | -20850 | -21530 | -25370 | -25370 | -25670 | -27630 | .23660 | .21650 |
| .900 | -3.055 | -21150 | -21110 | -21270 | -21150 | -25130 | -25130 | -26270 | -28010 | .23930 | .22030 |
| .900 | -2.074 | -21720 | -21880 | -22300 | -22210 | -27890 | -27890 | -28090 | -28160 | .23840 | .21700 |
| .900 | -1.069 | -21650 | -22410 | -21500 | -22010 | -27380 | -27380 | -28110 | -28680 | .23960 | .21980 |
| .900 | -.031 | -22450 | -22800 | -22540 | -22690 | -28210 | -28210 | -28800 | -29410 | .23880 | .21890 |
| .899 | .934 | -23150 | -22760 | -23250 | -22780 | -28140 | -28140 | -28300 | -29550 | .23900 | .21870 |
| .900 | 1.942 | -23200 | -22890 | -23250 | -23950 | -27690 | -27690 | -28630 | -29190 | .23700 | .21810 |
| .899 | 2.958 | -23610 | -24600 | -24080 | -24480 | -27400 | -27400 | -28540 | -30350 | .24080 | .21970 |
| .900 | 3.975 | -25030 | -24600 | -24840 | -24680 | -29440 | -29440 | -30640 | -30350 | .24070 | .21800 |
| .899 | 5.958 | -26130 | -26090 | -25950 | -26000 | -31900 | -31900 | -33550 | -33120 | .24560 | .22690 |
| .900 | 8.006 | -27210 | -27180 | -26830 | -26810 | -30890 | -30890 | -33700 | -33840 | .24400 | .22150 |
| .900 | 10.067 | -27700 | -27370 | -27580 | -26860 | -30530 | -30530 | -31640 | -33510 | .24320 | .22010 |
| | GRADIENT | -.00443 | -.00405 | -.00455 | -.00444 | -.00388 | -.00388 | -.00497 | -.00364 | .00029 | .00009 |

RUN NO. 0/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .952 | -10.077 | -20970 | -21160 | -21380 | -21020 | -29360 | -29360 | -29490 | -29800 | .28360 | .24750 |
| .951 | -8.071 | -21560 | -21520 | -21380 | -21460 | -31370 | -31370 | -31750 | -32330 | .28360 | .24730 |
| .952 | -6.022 | -22430 | -22330 | -21870 | -21820 | -32810 | -32810 | -33540 | -33880 | .28600 | .24920 |
| .953 | -4.003 | -22410 | -22720 | -22060 | -22640 | -32830 | -32830 | -33730 | -33940 | .28750 | .25160 |
| .951 | -2.954 | -23010 | -22720 | -22670 | -23310 | -33590 | -33590 | -34040 | -34600 | .28280 | .24640 |
| .953 | -1.993 | -23360 | -23490 | -23260 | -23080 | -32790 | -32790 | -34100 | -34900 | .28740 | .25200 |
| .952 | -1.029 | -23950 | -23670 | -23170 | -23630 | -33970 | -33970 | -34450 | -35390 | .28520 | .24940 |
| .952 | -.091 | -24570 | -24620 | -24260 | -24770 | -34830 | -34830 | -35410 | -35920 | .28440 | .24750 |
| .953 | .904 | -24870 | -24710 | -24180 | -24540 | -35200 | -35200 | -36190 | -36560 | .28530 | .24710 |
| .952 | 1.937 | -25360 | -25480 | -25610 | -25860 | -35540 | -35540 | -36970 | -37440 | .28420 | .24710 |
| .952 | 2.920 | -26480 | -25740 | -26230 | -26560 | -36100 | -36100 | -37870 | -37870 | .28340 | .24800 |
| .953 | 3.895 | -26940 | -26590 | -26280 | -26560 | -36310 | -36310 | -37450 | -37450 | .28340 | .25050 |
| .953 | 5.914 | -28320 | -28180 | -26870 | -28230 | -36520 | -36520 | -37100 | -37100 | .28460 | .25050 |
| .953 | 8.132 | -29150 | -28110 | -28310 | -29310 | -36620 | -36620 | -36780 | -36780 | .28710 | .25300 |
| .952 | 10.055 | -29380 | -28520 | -29610 | -29500 | -36590 | -36590 | -36950 | -38250 | .28610 | .25093 |
| | GRADIENT | -.00567 | -.00459 | -.00514 | -.00502 | -.00477 | -.00477 | -.00492 | -.00501 | -.00004 | -.00017 |

OA145 TABULATED FORCE DATA

AMES 118-1-11 0A145A 01

DATE 10 MAR 80

REFERENCE DATA

| | | | |
|-------|---|-----------|--------|
| XMRAP | = | 2690.0000 | SQ.FT. |
| YMRAP | = | 474.8100 | INCHES |
| ZMRAP | = | 936.6800 | INCHES |
| | = | .0500 | SCALE |

ALPHA
A ILRON
SPOBRK
RN/L

BETA -
BDFLAP -
RUDDER -

PARAMETRIC DATA

5.000
5.000
25.000
5.000

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 0/0 RN/L = 5.04

| MACH | ELEVON | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 1.199 | -10.208 | -28930 | -29060 | -29090 | -29100 | -27900 | -27900 | -27450 | -42450 | 37490 | 37490 |
| 1.199 | -8.123 | -28930 | -29060 | -29090 | -30200 | -30330 | -30330 | -30270 | -30710 | 37580 | 37580 |
| 1.199 | -6.177 | -31060 | -30950 | -31110 | -31000 | -32230 | -32230 | -33270 | -32550 | 37440 | 37440 |
| 1.198 | -4.125 | -31120 | -31080 | -31070 | -31010 | -32980 | -32980 | -33250 | -33660 | 37280 | 37280 |
| 1.199 | -3.069 | -30740 | -30550 | -30720 | -30530 | -32890 | -32890 | -33590 | -33490 | 37560 | 37560 |
| 1.198 | -2.096 | -31210 | -31040 | -30990 | -31010 | -33880 | -33880 | -34110 | -34350 | 37180 | 37180 |
| 1.199 | -1.095 | -31250 | -30950 | -31050 | -31210 | -33620 | -33620 | -34250 | -34350 | 37440 | 37440 |
| 1.200 | -0.048 | -31060 | -31330 | -31050 | -31330 | -34080 | -34080 | -34360 | -35020 | 37440 | 37440 |
| 1.199 | 0.917 | -31680 | -31570 | -31520 | -31420 | -34070 | -34070 | -34780 | -35130 | 37500 | 37500 |
| 1.198 | 1.909 | -31700 | -32310 | -32350 | -32020 | -34320 | -34320 | -34780 | -35200 | 37340 | 37340 |
| 1.199 | 2.933 | -31700 | -32100 | -31760 | -32230 | -34040 | -34040 | -34430 | -34890 | 37550 | 37550 |
| 1.199 | 3.933 | -32340 | -32190 | -32160 | -32160 | -34070 | -34070 | -34500 | -34980 | 37530 | 37530 |
| 1.199 | 6.176 | -32700 | -32660 | -32980 | -32550 | -34020 | -34020 | -34270 | -34760 | 37550 | 37550 |
| 1.199 | 7.980 | -32820 | -33310 | -33090 | -33020 | -34580 | -34580 | -34890 | -34380 | 37520 | 37520 |
| 1.198 | 10.028 | -32890 | -33060 | -33250 | -32900 | -33960 | -33960 | -34100 | -34570 | 37540 | 37540 |
| | | | -33060 | -33250 | -32900 | -33960 | -33960 | -34100 | -34570 | 00024 | 00023 |
| | | | -33060 | -33250 | -32900 | -33960 | -33960 | -34100 | -34570 | 00024 | 00023 |

GRADIENT INTERVAL = -5.00/ 5.00

| BUN NO. | 0/0 | RN/L | = | 5.02 |
|---------|-----|------|---|------|
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| MACH | ELEVON | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP12 | CP13 |
|-------|----------|---------|---------|----------|----------|----------|----------|----------|----------|----------|
| 1.298 | -10.070 | 30550 | 30610 | 30970 | 31050 | 31750 | 31750 | 31670 | 45440 | 40110 |
| 1.298 | -8.047 | 31000 | 31340 | 31490 | 31170 | 32640 | 32640 | 32840 | 45540 | 40120 |
| 1.298 | -6.019 | 31040 | 31040 | 31030 | 30930 | 32890 | 32890 | 33070 | 45650 | 40200 |
| 1.298 | -3.945 | 31320 | 30780 | 30940 | 30970 | 32990 | 32990 | 33460 | 45590 | 40140 |
| 1.298 | -2.992 | 30960 | 30920 | 30420 | 30390 | 33000 | 33000 | 33470 | 45620 | 40210 |
| 1.299 | -1.973 | 30400 | 30410 | 30490 | 30390 | 33670 | 33670 | 34010 | 45600 | 40130 |
| 1.299 | -971 | 30330 | 30350 | 30420 | 30700 | 33920 | 33920 | 34280 | 45630 | 40200 |
| 1.299 | -955 | 30340 | 30420 | 30520 | 30300 | 34000 | 34000 | 34710 | 45680 | 40200 |
| 1.298 | 1.028 | 31060 | 31050 | 30770 | 31020 | 34410 | 34410 | 34070 | 45500 | 40040 |
| 1.298 | 2.027 | 31320 | 31410 | 31390 | 31170 | 34920 | 34920 | 35070 | 45490 | 40020 |
| 1.298 | 3.027 | 31480 | 31560 | 31330 | 31500 | 35100 | 35100 | 35010 | 45500 | 40050 |
| 1.298 | 4.029 | 32090 | 32230 | 31910 | 32050 | 35500 | 35500 | 35640 | 45510 | 39990 |
| 1.297 | 6.028 | 32400 | 32580 | 32650 | 32680 | 35700 | 35700 | 35810 | 45420 | 39830 |
| 1.297 | 8.232 | 32580 | 32740 | 32820 | 32850 | 34640 | 34640 | 34870 | 45480 | 39860 |
| 1.296 | 10.133 | 32520 | 32510 | 32810 | 32470 | 33490 | 33490 | 33670 | 45500 | 39870 |
| | GRADIENT | -0.0121 | -0.0115 | -0.00146 | -0.00322 | -0.00322 | -0.00322 | -0.00245 | -0.00017 | -0.00024 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 0/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.402 | -10.205 | -30970 | -30420 | -30410 | -30350 | -31270 | -31270 | -32470 | -32280 | 48530 | 45830 |
| 1.404 | -8.123 | -30820 | -30580 | -30680 | -30670 | -31320 | -31320 | -32420 | -32400 | 48920 | 46020 |
| 1.404 | -6.172 | -30880 | -30530 | -30640 | -30660 | -31320 | -31320 | -32420 | -32210 | 48740 | 45810 |
| 1.403 | -4.119 | -30810 | -30640 | -30720 | -30700 | -31560 | -31560 | -32030 | -32400 | 48730 | 45680 |
| 1.403 | -3.050 | -30650 | -30730 | -30760 | -30700 | -31320 | -31320 | -31800 | -31890 | 48970 | 45970 |
| 1.403 | -2.087 | -30680 | -30800 | -30730 | -30720 | -31480 | -31480 | -31870 | -31750 | 48940 | 45940 |
| 1.402 | -1.072 | -30730 | -30800 | -30900 | -30920 | -31550 | -31550 | -32040 | -32350 | 48750 | 45830 |
| 1.403 | -.039 | -30830 | -30780 | -30820 | -30850 | -31750 | -31750 | -32520 | -32130 | 48830 | 45810 |
| 1.403 | -.932 | -30880 | -30930 | -30950 | -30890 | -31680 | -31680 | -32100 | -31960 | 49030 | 45880 |
| 1.402 | 1.912 | -31210 | -31210 | -31150 | -31200 | -32010 | -32010 | -32490 | -32690 | 49160 | 45780 |
| 1.402 | 2.931 | -31380 | -31370 | -31400 | -31480 | -32040 | -32040 | -33200 | -33080 | 48860 | 45810 |
| 1.401 | 3.940 | -31660 | -31660 | -31690 | -31680 | -32490 | -32490 | -33680 | -33220 | 49070 | 45790 |
| 1.401 | 5.916 | -31880 | -31920 | -31910 | -32010 | -32290 | -32290 | -33680 | -33670 | 49300 | 45990 |
| 1.401 | 7.958 | -31710 | -31830 | -31690 | -31920 | -32270 | -32270 | -33500 | -33690 | 49320 | 45950 |
| 1.401 | 10.008 | -31440 | -31500 | -31580 | -31480 | -32340 | -32340 | -33590 | -34100 | .00024 | .00003 |
| 1.401 | GRADIENT | -31440 | -31500 | -31580 | -31480 | -32340 | -32340 | -33590 | -34100 | .00024 | .00003 |
| | | -00113 | -00115 | -00111 | -00119 | -00117 | -00117 | -00146 | -00138 | | |

OAI45 TABULATED FORCE DATA

AMES 118-1-11 OAI45A 01

DATE 10 MAR 80

(28F035) (18 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 BETA = .000
 AILRON = .000 BDFLAF = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 443/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| .897 | -9.972 | -21430 | -21830 | -21640 | -21620 | -23090 | -23090 | -22880 | -24040 | 13160 | 15660 |
| .901 | -7.958 | -21670 | -21200 | -21150 | -21680 | -23710 | -23710 | -23590 | -24280 | 18190 | 15850 |
| .901 | -6.010 | -21670 | -22190 | -22010 | -22210 | -24550 | -24550 | -24520 | -24780 | 18100 | 15740 |
| .900 | -3.990 | -21790 | -22130 | -22010 | -22100 | -25830 | -25830 | -25620 | -26090 | 18040 | 15570 |
| .901 | -2.952 | -22900 | -23180 | -22350 | -23080 | -26610 | -26610 | -26520 | -27110 | 18050 | 15720 |
| .901 | -1.984 | -22870 | -22800 | -22540 | -22800 | -27780 | -27780 | -27280 | -28900 | 17970 | 15660 |
| .901 | .991 | -23550 | -23430 | -23520 | -23900 | -28110 | -28110 | -28370 | -28830 | 18360 | 15980 |
| .901 | .020 | -24760 | -24330 | -24610 | -24120 | -30020 | -30020 | -29180 | -30620 | 18130 | 15540 |
| .901 | 1.003 | -25970 | -26310 | -25880 | -26430 | -30060 | -30060 | -29550 | -30910 | 18210 | 15770 |
| .902 | 2.004 | -26790 | -26890 | -26540 | -26510 | -31090 | -31090 | -30850 | -32280 | 18180 | 15780 |
| .900 | 3.017 | -27520 | -27050 | -27310 | -27410 | -30250 | -30250 | -31130 | -32630 | 18230 | 16000 |
| .901 | 4.014 | -27940 | -27400 | -27500 | -27660 | -29910 | -29910 | -30530 | -30980 | 18250 | 15960 |
| .901 | 5.974 | -28900 | -28540 | -28170 | -28600 | -31120 | -31120 | -31570 | -32650 | 18080 | 15810 |
| .900 | 8.005 | -29660 | -28950 | -29370 | -29510 | -31900 | -31900 | -32900 | -33880 | 18410 | 15970 |
| .900 | 10.075 | -30740 | -30760 | -30170 | -30310 | -33040 | -33040 | -34160 | -34970 | 18320 | 15920 |
| | GRADIENT | -.00814 | -.00730 | -.00788 | -.00738 | -.00597 | -.00597 | -.00698 | -.00750 | 0.0028 | 0.0041 |

RUN NO. 440/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .950 | -9.985 | -22540 | -22810 | -22070 | -22620 | -23790 | -23790 | -23680 | -23560 | 21400 | 19090 |
| .954 | -7.958 | -23300 | -22080 | -22210 | -22600 | -25140 | -25140 | -24940 | -25410 | 22240 | 19710 |
| .953 | -6.003 | -23010 | -23160 | -23280 | -23780 | -27770 | -27770 | -27870 | -28150 | 22190 | 19740 |
| .952 | -3.987 | -25070 | -25020 | -25000 | -24940 | -30660 | -30660 | -31390 | -32710 | 22100 | 19610 |
| .951 | -2.950 | -26370 | -26220 | -26390 | -26340 | -32730 | -32730 | -33610 | -34880 | 21980 | 19490 |
| .952 | -1.985 | -27350 | -26790 | -26690 | -26830 | -34140 | -34140 | -35450 | -35650 | 21870 | 19510 |
| .951 | .991 | -28070 | -27830 | -28170 | -27930 | -35450 | -35450 | -36510 | -37210 | 22020 | 19530 |
| .952 | .017 | -29010 | -29110 | -28710 | -28830 | -37560 | -37560 | -38090 | -39190 | 21780 | 19270 |
| .951 | 1.006 | -29640 | -29640 | -29840 | -30280 | -38350 | -38350 | -39000 | -40670 | 21920 | 19450 |
| .951 | 2.002 | -30960 | -30690 | -30870 | -30710 | -39700 | -39700 | -39990 | -41640 | 21830 | 19280 |
| .951 | 3.025 | -31690 | -31500 | -31320 | -31920 | -39820 | -39820 | -40620 | -41790 | 21660 | 19370 |
| .951 | 4.007 | -32950 | -32750 | -32450 | -32500 | -40010 | -40010 | -41060 | -42260 | 21880 | 19370 |
| .951 | 5.982 | -34210 | -33960 | -33690 | -33740 | -40420 | -40420 | -40770 | -41670 | 21740 | 19350 |
| .951 | 8.009 | -34950 | -34340 | -34070 | -34630 | -39430 | -39430 | -40130 | -40780 | 21880 | 19450 |
| .950 | 10.071 | -34530 | -34090 | -33900 | -33940 | -38810 | -38810 | -39410 | -39710 | 21780 | 19310 |
| | GRADIENT | -.00940 | -.00942 | -.00912 | -.00954 | -.01214 | -.01214 | -.01214 | -.01242 | 0.00024 | 0.00032 |

(E2F036) (16 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000 BETA = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 442/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| .899 | -3.977 | -22630 | -22580 | -23030 | -22490 | -33910 | -33910 | -34530 | -34650 | .28150 | .23290 |
| .902 | -7.968 | -22120 | -21760 | -21620 | -21150 | -34610 | -34610 | -34680 | -34840 | .28360 | .23260 |
| .901 | -6.003 | -22230 | -22680 | -23300 | -22640 | -35130 | -35130 | -35480 | -34960 | .28000 | .23200 |
| .899 | -3.982 | -23630 | -23680 | -23820 | -24530 | -35410 | -35410 | -36100 | -35600 | .27760 | .23120 |
| .902 | -2.945 | -24240 | -24340 | -24020 | -24390 | -34460 | -34460 | -34980 | -35560 | .28360 | .23730 |
| .900 | -1.989 | -25300 | -25130 | -24820 | -25350 | -35070 | -35070 | -35500 | -35730 | .28240 | .23310 |
| .900 | -1.986 | -25700 | -25470 | -25090 | -25000 | -35480 | -35480 | -36080 | -36140 | .27920 | .23150 |
| .898 | .012 | -26810 | -26600 | -26450 | -26500 | -35780 | -35780 | -36580 | -36420 | .27550 | .22620 |
| .900 | .997 | -26970 | -26440 | -26520 | -27320 | -34790 | -34790 | -35070 | -35700 | .28050 | .23050 |
| .901 | 2.001 | -26960 | -26770 | -27150 | -26870 | -34340 | -34340 | -34310 | -34750 | .28090 | .23290 |
| .901 | 3.026 | -27710 | -27000 | -27260 | -27470 | -34450 | -34450 | -35220 | -34790 | .28040 | .23280 |
| .900 | 4.015 | -29030 | -28370 | -27630 | -28160 | -35290 | -35290 | -35050 | -35130 | .27670 | .22860 |
| .900 | 5.983 | -29270 | -29130 | -28900 | -29340 | -33960 | -33960 | -34820 | -35890 | .28480 | .23630 |
| .900 | 8.008 | -30230 | -30390 | -29820 | -30270 | -34210 | -34210 | -34190 | -35590 | .28360 | .23620 |
| .901 | 10.074 | -31800 | -31640 | -31710 | -31380 | -34330 | -34330 | -35150 | -35290 | .28210 | .23690 |
| | GRADIENT | -00563 | -00521 | -00518 | -00486 | .00045 | .00045 | .00115 | .00177 | -.00025 | -.00042 |

RUN NO. 441/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|
| .950 | -9.969 | -22860 | -22710 | -22910 | -22940 | -34170 | -34170 | -34580 | -34980 | .31200 | .26190 |
| .950 | -7.958 | -22620 | -22520 | -23790 | -23020 | -35540 | -35540 | -35770 | -36720 | .31180 | .26260 |
| .950 | -6.002 | -23850 | -23780 | -23760 | -24070 | -37320 | -37320 | -37790 | -37150 | .31050 | .26070 |
| .951 | -3.981 | -25470 | -24940 | -25070 | -25290 | -38380 | -38380 | -37960 | -38640 | .31050 | .26220 |
| .950 | -2.945 | -25380 | -25850 | -26180 | -25930 | -37820 | -37820 | -37960 | -38380 | .31030 | .25980 |
| .950 | -1.977 | -25940 | -25530 | -26360 | -26840 | -37610 | -37610 | -38040 | -38950 | .31080 | .26120 |
| .952 | -.989 | -26700 | -26750 | -26900 | -26630 | -38270 | -38270 | -38070 | -38060 | .31250 | .26060 |
| .951 | .012 | -27100 | -26510 | -27200 | -27620 | -37020 | -37020 | -37520 | -38080 | .31150 | .26190 |
| .951 | 1.003 | -27200 | -27120 | -27870 | -27570 | -36400 | -36400 | -37350 | -38080 | .31280 | .26310 |
| .950 | 2.004 | -28180 | -28160 | -28550 | -28580 | -36930 | -36930 | -37470 | -38060 | .31080 | .26200 |
| .950 | 3.023 | -29260 | -29350 | -28740 | -29780 | -37170 | -37170 | -37800 | -39000 | .31210 | .26030 |
| .950 | 4.017 | -29080 | -29320 | -29470 | -29780 | -37490 | -37490 | -38030 | -38540 | .30930 | .26120 |
| .949 | 5.982 | -30030 | -29760 | -30330 | -30600 | -36960 | -36960 | -37790 | -38560 | .31140 | .26220 |
| .949 | 8.009 | -31120 | -31120 | -31290 | -30930 | -35850 | -35850 | -37570 | -37870 | .31030 | .26120 |
| .949 | 10.067 | -31850 | -31870 | -32260 | -32060 | -35820 | -35820 | -37080 | -37730 | .31140 | .26300 |
| | GRADIENT | -00519 | -00563 | -00512 | -00545 | .00094 | .00094 | .00062 | -.00055 | .00001 | .00006 |

(E2F037) (06 MAR 80)

OAI45 TABULATED FORCE DATA

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 5.000 BETA = 2.000
AILRON = .000 BDFLAP = .000
SPDRK = 25.000 RUDDER = .000
RN/L = 5.000

GRADIENT INTERVAL = -5.00/ 5.00

| RUN NO. | 0/ 0 | RN/L = 4.99 | ELEVON | CP240 | CP12 | CP13 |
|---------|------|-------------|---------|---------|---------|------|
| | MACH | | | | | |
| | .599 | -29.998 | -21.950 | .13240 | .21580 | |
| | .600 | -19.961 | -24.200 | .12960 | .21800 | |
| | .600 | -15.003 | -25.450 | .12710 | .21340 | |
| | .600 | -9.931 | -25.150 | .13010 | .21400 | |
| | .599 | -5.985 | -23.780 | .12810 | .21440 | |
| | .599 | -3.981 | -23.040 | .13300 | .21970 | |
| | .599 | -1.972 | -23.260 | .12810 | .21710 | |
| | .599 | .014 | -23.600 | .12480 | .21090 | |
| | .599 | 1.966 | -23.600 | .12590 | .21560 | |
| | .599 | 3.941 | -25.420 | .12390 | .21560 | |
| | .598 | 5.888 | -27.460 | .12880 | .21790 | |
| | .599 | 9.914 | -30.620 | .12720 | .21450 | |
| | .598 | 14.673 | -34.040 | .13150 | .21750 | |
| | | GRADIENT | -0.0258 | -0.0103 | -0.0049 | |

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 0/ 0 RN/L = 5.02

| RUN NO. | 0/ 0 | RN/L = 5.02 | ELEVON | CP240 | CP12 | CP13 |
|---------|------|-------------|---------|---------|---------|------|
| | MACH | | | | | |
| | .800 | -29.992 | -21.510 | .14350 | .22410 | |
| | .802 | -19.961 | -22.210 | .14460 | .22550 | |
| | .800 | -15.007 | -24.100 | .14470 | .22530 | |
| | .801 | -9.926 | -25.490 | .14360 | .22440 | |
| | .800 | -5.993 | -26.420 | .14370 | .22270 | |
| | .800 | -3.980 | -25.640 | .14020 | .22240 | |
| | .801 | -1.977 | -24.760 | .14410 | .22280 | |
| | .800 | .016 | -24.220 | .13960 | .22580 | |
| | .800 | 1.966 | -24.560 | .14170 | .22210 | |
| | .799 | 3.942 | -26.060 | .13810 | .22240 | |
| | .800 | 5.892 | -27.810 | .14410 | .22470 | |
| | .799 | 9.905 | -30.690 | .14430 | .22290 | |
| | .799 | 14.689 | -35.240 | .14150 | .22700 | |
| | | GRADIENT | -0.0031 | -0.0033 | -0.0003 | |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1709

(E2F037) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 5.000
AILRON = .000
SPOBRK = 25.000
RN/L = 5.000
BETA = 2.000
BDFLAP = .000
RUDDER = .000

RUN NO. 0/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .901 | -30.645 | -22370 | .20190 | .27370 |
| .902 | -20.430 | -24630 | .20140 | .27600 |
| .901 | -15.340 | -27930 | .20480 | .27520 |
| .902 | -10.180 | -29680 | .20600 | .27730 |
| .901 | -6.160 | -31080 | .20580 | .27610 |
| .900 | -4.117 | -32280 | .20450 | .27570 |
| .900 | -2.079 | -32350 | .20690 | .27740 |
| .902 | -.044 | -33100 | .20080 | .27390 |
| .900 | 1.912 | -32010 | .20390 | .27510 |
| .900 | 3.938 | -33820 | .20000 | .27100 |
| .901 | 5.916 | -34790 | .20210 | .27500 |
| .901 | 9.997 | -34010 | .20490 | .27600 |
| .902 | 14.869 | -34900 | .20600 | .28120 |
| | GRADIENT | -340137 | -.00060 | -.00058 |

RUN NO. 0/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP240 | CP12 | CP13 |
|------|----------|--------|--------|--------|
| .947 | -30.302 | -16830 | .22620 | .29830 |
| .949 | -19.742 | -23430 | .22560 | .29760 |
| .948 | -9.949 | -29880 | .22310 | .29540 |
| .945 | -5.950 | -32170 | .22030 | .29470 |
| .945 | -3.936 | -33350 | .21880 | .29200 |
| .944 | -1.942 | -33350 | .21710 | .29150 |
| .944 | .023 | -32970 | .21960 | .29240 |
| .946 | 2.004 | -33070 | .22180 | .29390 |
| .945 | 4.003 | -32580 | .21950 | .29380 |
| .946 | 6.001 | -32570 | .22310 | .29580 |
| .943 | 10.015 | -35760 | .21820 | .29080 |
| .942 | 15.013 | -36510 | .22050 | .29270 |
| | GRADIENT | .00092 | .00031 | .00030 |

(E2F037) (06 MAR 80)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = 2.000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 0/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP240 | CP12 | CP13 |
|-------|----------|----------|----------|----------|
| 1.299 | -29.991 | -25490 | .41410 | .44120 |
| 1.299 | -19.957 | -26360 | .41390 | .44220 |
| 1.299 | -14.993 | -26990 | .41460 | .44260 |
| 1.297 | -9.931 | -30020 | .41510 | .44250 |
| 1.296 | -5.987 | -31100 | .41220 | .44000 |
| 1.296 | -3.973 | -30860 | .41250 | .44000 |
| 1.294 | -1.905 | -30690 | .41260 | .44060 |
| 1.296 | .026 | -30800 | .41300 | .44050 |
| 1.297 | 1.976 | -31510 | .41160 | .43880 |
| 1.296 | 3.952 | -31270 | .41200 | .43920 |
| 1.295 | 5.895 | -31470 | .41210 | .44010 |
| 1.295 | 9.932 | -30340 | .41240 | .43960 |
| 1.294 | 14.709 | -27780 | .41030 | .43780 |
| | GRADIENT | - .00083 | - .00010 | - .00017 |

RUN NO. 0/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP240 | CP12 | CP13 |
|-------|----------|----------|----------|----------|
| 1.400 | -29.994 | -24150 | .48550 | .46390 |
| 1.405 | -19.956 | -25370 | .48640 | .46180 |
| 1.405 | -14.994 | -27680 | .48560 | .46410 |
| 1.404 | -9.926 | -30420 | .49030 | .46430 |
| 1.404 | -5.983 | -30670 | .49420 | .46230 |
| 1.403 | -3.971 | -30960 | .45650 | .46220 |
| 1.404 | -1.970 | -30680 | .45870 | .46230 |
| 1.403 | .027 | -30780 | .45660 | .46280 |
| 1.403 | 1.971 | -31210 | .45560 | .46140 |
| 1.404 | 3.969 | -30860 | .45530 | .46380 |
| 1.404 | 5.910 | -30640 | .45730 | .46380 |
| 1.402 | 9.946 | -28290 | .45530 | .46340 |
| 1.401 | 14.747 | -24260 | .45570 | .46370 |
| | GRADIENT | - .00016 | - .00028 | - .00012 |

DATE 10 MAR 80

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(E2FY37) (22 JUL 77)

OAI145 TABULATED FORCE DATA

AMES 118-1-11 OAI145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = 2.000
AILRON = .000 BOFLAP = .000
SPOBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 0/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | | | | | | | | |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| MACH | ELEVON | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
| 1.400 | -29.994 | -29370 | -29660 | -29760 | -29590 | -24150 | -24150 | -23640 | -23420 | -48550 | -46390 |
| 1.405 | -19.956 | -29010 | -29080 | -29010 | -28740 | -25370 | -25370 | -24970 | -24760 | -48840 | -46180 |
| 1.405 | -14.994 | -30270 | -29440 | -29380 | -29530 | -27680 | -27680 | -27710 | -27500 | -48560 | -46410 |
| 1.404 | -9.926 | -31110 | -30660 | -30730 | -30760 | -30420 | -30420 | -30470 | -30800 | -49030 | -46430 |
| 1.404 | -5.983 | -30960 | -30970 | -30830 | -30870 | -30670 | -30670 | -30910 | -31280 | -49420 | -46230 |
| 1.403 | -3.971 | -30920 | -30870 | -30860 | -30890 | -30960 | -30960 | -31060 | -31540 | -45650 | -46220 |
| 1.404 | -1.970 | -30590 | -30710 | -30840 | -30700 | -30680 | -30680 | -30870 | -31260 | -45870 | -46230 |
| 1.403 | .027 | -30910 | -30930 | -30970 | -30910 | -30780 | -30780 | -31090 | -31310 | -45660 | -46280 |
| 1.403 | 1.971 | -31220 | -31350 | -31360 | -31250 | -31210 | -31210 | -31360 | -31870 | -45560 | -46140 |
| 1.404 | 3.969 | -31130 | -31550 | -31450 | -31540 | -30860 | -30860 | -31120 | -31500 | -45530 | -46380 |
| 1.404 | 5.910 | -31630 | -31710 | -31610 | -31630 | -30640 | -30640 | -30820 | -31240 | -45730 | -46380 |
| 1.402 | 9.946 | -31570 | -31870 | -31830 | -31850 | -28290 | -28290 | -28330 | -28610 | -45530 | -46340 |
| 1.401 | 14.747 | -30280 | -30620 | -30490 | -30580 | -24260 | -24260 | -24200 | -24410 | -45570 | -46370 |
| GRADIENT | | -0.0053 | -0.0103 | -0.0086 | -0.0093 | -0.0016 | -0.0016 | -0.0031 | -0.0026 | -0.0028 | -0.0012 |

(E2F038) (06 MAR 80)

PARAMETRIC DATA

ALPHA = .000 ELEVON = -5.000
AILRON = .000 BOFLAP = .000
SPOBRK = 25.000 RUDDER = .000
RN/L = 5.000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

RUN NO. 785/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | |
|----------|--------|--------|---------|---------|
| MACH | BETA | CP240 | CP12 | CP13 |
| .597 | -6.072 | -21520 | .19190 | -.05620 |
| .596 | -1.992 | -21410 | .11340 | .02010 |
| .596 | -.944 | -21030 | .09720 | .04670 |
| .597 | .099 | -21290 | .07690 | .06560 |
| .597 | .607 | -20970 | .06840 | .07770 |
| .597 | 1.128 | -21040 | .05790 | .08720 |
| .597 | 2.168 | -20920 | .03820 | .10680 |
| .597 | 3.196 | -21220 | .01700 | .12610 |
| .597 | 4.223 | -21150 | -.00330 | .14550 |
| .596 | 6.254 | -21410 | -.03950 | .18880 |
| GRADIENT | | .00024 | -.01897 | .01984 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

AMES 118-1-11 OAI45A 01

PAGE 1713

(E2F038) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = .000
AIIIRON = .000
SPDRK = 25.000
RN/L = 5.000
ELEVON = -5.000
BOFLAP = .000
RUDDER = .000

RUN NO. 778/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .798 | -6.223 | -.23600 | .24870 | -.02220 |
| .798 | -2.120 | -.23430 | .16390 | .06160 |
| .799 | -1.070 | -.23020 | .14550 | .08720 |
| .799 | .013 | -.23090 | .12740 | .11040 |
| .799 | .535 | -.23140 | .11520 | .12150 |
| .799 | 1.070 | -.22900 | .10470 | .13500 |
| .799 | 2.130 | -.23280 | .08490 | .15470 |
| .798 | 3.178 | -.23050 | .06190 | .17860 |
| .798 | 4.217 | -.23780 | .03780 | .19720 |
| .796 | 6.285 | -.23840 | .00280 | .24480 |
| | GRADIENT | -.00044 | -.01986 | .02139 |

RUN NO. 777/ 0 RN/L = 5.06 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .900 | -6.256 | -.23620 | .30080 | .02860 |
| .902 | -2.129 | -.23370 | .22000 | .11530 |
| .900 | -1.074 | -.24070 | .19740 | .13340 |
| .899 | .014 | -.24050 | .17470 | .15780 |
| .900 | .537 | -.23910 | .16730 | .17000 |
| .900 | 1.071 | -.24290 | .15550 | .18110 |
| .899 | 2.135 | -.24550 | .13480 | .20350 |
| .899 | 3.188 | -.25080 | .11000 | .22540 |
| .899 | 4.232 | -.25080 | .09340 | .24840 |
| .896 | 6.310 | -.27520 | .04860 | .29150 |
| | GRADIENT | -.00262 | -.02002 | .02115 |

RUN NO. 770/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .949 | -6.262 | -.26070 | .33510 | .06210 |
| .952 | -2.139 | -.26460 | .25560 | .15040 |
| .950 | -1.078 | -.26950 | .23510 | .17210 |
| .950 | .016 | -.27570 | .21520 | .19550 |
| .952 | .539 | -.27180 | .20700 | .20970 |
| .951 | 1.066 | -.28400 | .19500 | .21840 |
| .950 | 2.141 | -.28770 | .17160 | .23970 |
| .950 | 3.198 | -.29400 | .15220 | .26260 |
| .949 | 4.244 | -.30310 | .13060 | .28330 |
| .947 | 6.322 | -.31440 | .09410 | .33070 |
| | GRADIENT | -.00603 | -.01964 | .02088 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(E2F038) (06 MAR 80)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = .000
A1LRON = .000
SPDBRK = 25.000
RN/L = 5.000
ELEVON = -5.000
BDFLAP = .000
RUDDER = .000

| RUN NO. | 766/ 0 | MACH | BETA | CP240 | CP12 | CP13 | GRADIENT INTERVAL | -5.00/ 5.00 |
|---------|--------|-------|----------|--------|---------|--------|-------------------|-------------|
| | | 1.199 | -6.262 | -28350 | -49870 | -26440 | | |
| | | 1.201 | -2.127 | -26470 | -41700 | -31500 | | |
| | | 1.200 | -1.071 | -25470 | -39750 | -33310 | | |
| | | 1.200 | .014 | -25200 | -37940 | -35430 | | |
| | | 1.200 | .538 | -25250 | -37030 | -36410 | | |
| | | 1.200 | 1.070 | -25210 | -36210 | -37470 | | |
| | | 1.200 | 2.131 | -25280 | -34310 | -39470 | | |
| | | 1.199 | 3.186 | -25080 | -32550 | -41630 | | |
| | | 1.197 | 4.233 | -25480 | -30890 | -43360 | | |
| | | 1.196 | 6.319 | -23580 | -28600 | -48010 | | |
| | | | GRADIENT | .00120 | -.01698 | .01894 | | |

| RUN NO. | 765/ 0 | MACH | BETA | CP240 | CP12 | CP13 | GRADIENT INTERVAL | -5.00/ 5.00 |
|---------|--------|-------|----------|--------|---------|--------|-------------------|-------------|
| | | 1.298 | -6.272 | -29940 | -50940 | -31700 | | |
| | | 1.301 | -2.141 | -28540 | -43530 | -36520 | | |
| | | 1.299 | -1.076 | -28280 | -41740 | -37470 | | |
| | | 1.299 | .015 | -28000 | -40000 | -38990 | | |
| | | 1.298 | .539 | -28120 | -39100 | -39510 | | |
| | | 1.297 | 1.067 | -27940 | -38530 | -40370 | | |
| | | 1.296 | 2.140 | -27340 | -36860 | -42300 | | |
| | | 1.296 | 3.196 | -27420 | -35030 | -44000 | | |
| | | 1.296 | 4.249 | -26930 | -33990 | -45970 | | |
| | | 1.294 | 6.329 | -26760 | -31850 | -49930 | | |
| | | | GRADIENT | .00245 | -.01511 | .01506 | | |

| RUN NO. | 758/ 0 | MACH | BETA | CP240 | CP12 | CP13 | GRADIENT INTERVAL | -5.00/ 5.00 |
|---------|--------|-------|----------|--------|---------|--------|-------------------|-------------|
| | | 1.401 | -6.281 | -28120 | -53290 | -31060 | | |
| | | 1.409 | -2.140 | -27620 | -46600 | -40880 | | |
| | | 1.408 | -1.073 | -27670 | -44970 | -41820 | | |
| | | 1.407 | .015 | -27500 | -43940 | -43610 | | |
| | | 1.405 | .536 | -27460 | -43160 | -44440 | | |
| | | 1.405 | 1.065 | -27340 | -42270 | -45080 | | |
| | | 1.405 | 2.137 | -27000 | -41330 | -46680 | | |
| | | 1.403 | 3.200 | -27160 | -39150 | -48030 | | |
| | | 1.403 | 4.243 | -26720 | -37300 | -49490 | | |
| | | 1.401 | 6.337 | -25480 | -30750 | -53480 | | |
| | | | GRADIENT | .00143 | -.01416 | .01384 | | |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(E2F039) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = .000 ELEVON = 5.000
 AIRLON = .000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 784/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .597 | -6.072 | -.23990 | .19630 | -.05740 |
| .597 | -1.987 | -.23230 | .11780 | .02630 |
| .596 | -.948 | -.23270 | .09740 | .04690 |
| .596 | .093 | -.23470 | .08010 | .06480 |
| .596 | .599 | -.22940 | .06960 | .07940 |
| .596 | 1.118 | -.23560 | .05780 | .08530 |
| .596 | 2.154 | -.23970 | .03800 | .10300 |
| .596 | 3.182 | -.24280 | .01260 | .12390 |
| .596 | 4.214 | -.24430 | -.00600 | .14260 |
| .596 | 6.249 | -.23830 | -.03780 | .19410 |
| | GRADIENT | -.00222 | -.02019 | .01864 |

RUN NO. 779/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .788 | -6.217 | -.25400 | .24720 | -.02310 |
| .799 | -2.104 | -.25180 | .16570 | .06300 |
| .798 | -1.059 | -.25220 | .14550 | .08630 |
| .799 | .020 | -.25350 | .12480 | .10990 |
| .799 | .538 | -.25590 | .11230 | .12050 |
| .798 | 1.063 | -.26040 | .10230 | .13060 |
| .798 | 2.118 | -.26170 | .08370 | .15440 |
| .798 | 3.163 | -.26130 | .06150 | .17780 |
| .798 | 4.203 | -.26930 | .04050 | .19660 |
| .797 | 6.269 | -.27680 | -.00010 | .24280 |
| | GRADIENT | -.00270 | -.01982 | .02132 |

RUN NO. 776/ 0 RN/L = 5.07 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .900 | -6.234 | -.27640 | .29990 | .02390 |
| .903 | -2.117 | -.28460 | .22110 | .11640 |
| .900 | -1.062 | -.29550 | .19500 | .13320 |
| .899 | .018 | -.29540 | .17540 | .15770 |
| .900 | .538 | -.30500 | .16490 | .16710 |
| .900 | 1.062 | -.30810 | .15360 | .17900 |
| .899 | 2.125 | -.30850 | .13470 | .20170 |
| .899 | 3.173 | -.30290 | .11280 | .22740 |
| .898 | 4.216 | -.31840 | .08860 | .24380 |
| .897 | 6.290 | -.32500 | .04990 | .29210 |
| | GRADIENT | -.00429 | -.02037 | .02081 |

OAI15 TABULATED FORCE DATA

DATE 10 MAR 80

(E2F039) (06 MAR 80)

AMES 118-1-11 OAI15A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 ELEVON = 5.000
AILRON = .000 BOFLAP = .000
SPOBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 771/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .951 | -6.237 | -.33670 | .33780 | .06640 |
| .953 | -2.116 | -.36650 | .25810 | .15420 |
| .950 | -1.063 | -.37730 | .23410 | .17280 |
| .951 | .018 | -.37810 | .21430 | .19670 |
| .951 | .539 | -.38280 | .20350 | .20510 |
| .950 | 1.060 | -.37950 | .19350 | .21730 |
| .951 | 2.120 | -.37370 | .17620 | .24180 |
| .950 | 3.169 | -.37790 | .15390 | .26360 |
| .951 | 4.212 | -.37720 | .13500 | .28610 |
| .947 | 6.293 | -.38550 | .09560 | .33040 |
| | GRADIENT | -.00087 | -.01919 | .02110 |

RUN NO. 767/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|--------|
| 1.200 | -6.248 | -.31710 | .49700 | .26300 |
| 1.202 | -2.112 | -.29240 | .42050 | .31670 |
| 1.200 | -1.062 | -.29350 | .39850 | .33290 |
| 1.199 | .018 | -.29430 | .37790 | .35260 |
| 1.200 | .537 | -.29270 | .37170 | .36430 |
| 1.199 | 1.063 | -.29380 | .36160 | .37410 |
| 1.198 | 2.123 | -.29600 | .34210 | .39310 |
| 1.199 | 3.173 | -.29760 | .32480 | .41860 |
| 1.198 | 4.217 | -.30010 | .31100 | .43570 |
| 1.196 | 6.299 | -.30240 | .28490 | .47860 |
| | GRADIENT | -.00115 | -.01732 | .01911 |

RUN NO. 764/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|--------|
| 1.299 | -6.267 | -.32140 | .51150 | .31740 |
| 1.301 | -2.132 | -.29540 | .43590 | .36440 |
| 1.300 | -1.068 | -.29160 | .41690 | .37490 |
| 1.298 | .016 | -.28960 | .39900 | .38780 |
| 1.299 | .538 | -.28550 | .39100 | .39630 |
| 1.297 | 1.064 | -.28660 | .38410 | .40290 |
| 1.297 | 2.131 | -.28430 | .36800 | .42190 |
| 1.298 | 3.187 | -.28090 | .35100 | .44170 |
| 1.295 | 4.235 | -.28110 | .33830 | .45660 |
| 1.292 | 6.317 | -.28550 | .31520 | .49620 |
| | GRADIENT | .00230 | -.01530 | .01499 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

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(E2F039) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

ALPHA = .000 ELEVON = 5.000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 759/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|--------|
| 1.401 | -6.266 | -.29910 | .53610 | .31190 |
| 1.408 | -2.130 | -.29320 | .46860 | .40960 |
| 1.407 | -1.067 | -.29250 | .45100 | .42110 |
| 1.405 | .018 | -.29080 | .43630 | .43610 |
| 1.405 | .537 | -.29020 | .43140 | .44250 |
| 1.406 | 1.061 | -.28310 | .42770 | .45550 |
| 1.404 | 2.129 | -.28140 | .41200 | .46650 |
| 1.402 | 3.187 | -.28280 | .39340 | .47970 |
| 1.404 | 4.234 | -.27660 | .37500 | .50010 |
| 1.399 | 6.323 | -.26620 | .30920 | .53420 |
| | GRADIENT | .00259 | -.01415 | .01414 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

ALPHA = 5.000 ELEVON = 10.000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 192/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .598 | -6.055 | -.31340 | .29550 | -.00910 |
| .597 | -1.956 | -.31360 | .20730 | .09090 |
| .598 | -.932 | -.31160 | .18230 | .11750 |
| .598 | .098 | -.31530 | .15220 | .14120 |
| .600 | .617 | -.31200 | .14280 | .15950 |
| .599 | 1.108 | -.32250 | .12420 | .16510 |
| .600 | 2.186 | -.31650 | .10220 | .19760 |
| .600 | 3.244 | -.32200 | .07480 | .22100 |
| .600 | 4.285 | -.32610 | .05220 | .24260 |
| .599 | 6.349 | -.34050 | .00140 | .28680 |
| | GRADIENT | -.00211 | -.02506 | .02457 |

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(E2F040) (06 MAR 80)

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

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AMES 118-1-11 0A145A 01

(E2F040) (06 MAR 80)

REFERENCE DATA

PARAMETRIC DATA

| | | | | | | | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|--------|--------|---|--------|--------|---|--------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. XO | ALPHA | = | 5.000 | ELEVON | = | 10.000 |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. YO | AILRON | = | .000 | BDFLAP | = | .000 |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. ZO | SPDRBK | = | 25.000 | RUDDER | = | .000 |
| SCALE | = | .0500 | | | | | | RN/L | = | 5.000 | | | |

| RUN NO. | 120/ 0 | RN/L = | 4.98 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|---------|--------|----------|------|---------------------|---------|--------|
| MACH | | BETA | | CP240 | CP12 | CP13 |
| .800 | | -6.090 | | -.33560 | .33610 | .01660 |
| .797 | | -1.995 | | -.36140 | .23870 | .11880 |
| .799 | | -.936 | | -.35300 | .21440 | .14920 |
| .798 | | .107 | | -.35320 | .18910 | .17290 |
| .797 | | .561 | | -.34600 | .18400 | .19000 |
| .800 | | 1.046 | | -.35280 | .17420 | .20060 |
| .798 | | 2.122 | | -.35620 | .13950 | .22620 |
| .800 | | 3.171 | | -.35290 | .11660 | .25480 |
| .797 | | 4.206 | | -.35590 | .09010 | .27840 |
| .799 | | 6.282 | | -.36370 | .04780 | .33110 |
| | | GRADIENT | | .00033 | -.02406 | .02572 |

| RUN NO. | 178/ 0 | MACH | RN/L | 5.02 | GRADIENT INTERVAL | -5.00/ | 5.00 |
|---------|--------|------|------|----------|-------------------|---------|--------|
| | | | | BETA | CP240 | CP12 | CP13 |
| | | .901 | | -6.101 | -.31470 | .39290 | .06020 |
| | | .903 | | -1.911 | -.31380 | .29830 | .17110 |
| | | .901 | | -.867 | -.32290 | .26860 | .19580 |
| | | .900 | | .037 | -.32900 | .24290 | .21830 |
| | | .902 | | .464 | -.32460 | .23550 | .23460 |
| | | .902 | | .993 | -.32900 | .22580 | .24610 |
| | | .900 | | 2.086 | -.33570 | .19830 | .27100 |
| | | .901 | | 3.158 | -.33530 | .17890 | .30430 |
| | | .901 | | 4.200 | -.35300 | .15260 | .32630 |
| | | .900 | | 6.274 | -.37040 | .09860 | .38190 |
| | | | | GRADIENT | -.00531 | -.02317 | .02579 |

| RUN NO. | 131/ 0 | RN/L | 5.01 | GRADIENT INTERVAL | -5.00/ 5.00 |
|---------|--------|----------|---------|-------------------|-------------|
| | MACH | BETA | CP240 | CP12 | CP13 |
| | .951 | -6.065 | -.33410 | .41630 | .09430 |
| | .950 | -1.921 | -.34560 | .32130 | .20000 |
| | .951 | -.855 | -.34530 | .29660 | .22890 |
| | .952 | .085 | -.35630 | .27630 | .25200 |
| | .951 | .520 | -.35070 | .26930 | .26390 |
| | .951 | 1.065 | -.35890 | .25860 | .27590 |
| | .951 | 2.132 | -.36200 | .22690 | .30390 |
| | .950 | 3.186 | -.37470 | .19850 | .32940 |
| | .950 | 4.225 | -.39200 | .17370 | .35170 |
| | .950 | 6.304 | -.39340 | .13310 | .41180 |
| | | GRADIENT | -.02727 | -.02420 | .02475 |

DATE 10 MAR 80

OA145 TABULATED FORCE DATA

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AMES 118-1-11 OA145A 01

(E2F040) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = 10.000
AILRON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 435/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|--------|
| 1.101 | -6.202 | -.37540 | .54180 | .21390 |
| 1.101 | -2.096 | -.36890 | .44770 | .30490 |
| 1.100 | -1.043 | -.36350 | .42360 | .33300 |
| 1.101 | .011 | -.36790 | .39790 | .35200 |
| 1.103 | .545 | -.36120 | .39120 | .37130 |
| 1.100 | 1.078 | -.36200 | .37720 | .38180 |
| 1.101 | 2.131 | -.36150 | .35300 | .40870 |
| 1.099 | 3.176 | -.36420 | .33230 | .43480 |
| 1.099 | 4.223 | -.36150 | .31530 | .46260 |
| 1.099 | 6.318 | -.36390 | .26730 | .51140 |
| | GRADIENT | .00003 | -.00120 | .00402 |

RUN NO. 169/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|--------|
| 1.200 | -6.101 | -.33060 | .56580 | .28170 |
| 1.200 | -1.934 | -.31840 | .47620 | .33940 |
| 1.198 | -.881 | -.31080 | .45200 | .36200 |
| 1.199 | .033 | -.31740 | .42950 | .38190 |
| 1.199 | .468 | -.30730 | .42520 | .39730 |
| 1.199 | .999 | -.31460 | .41500 | .40740 |
| 1.199 | 2.087 | -.30790 | .39910 | .43520 |
| 1.199 | 3.151 | -.31270 | .38160 | .46380 |
| 1.201 | 4.195 | -.30780 | .36520 | .49270 |
| 1.195 | 6.275 | -.31490 | .32230 | .54270 |
| | GRADIENT | .00121 | -.01762 | .02517 |

RUN NO. 141/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|--------|
| 1.294 | -6.122 | -.33250 | .55950 | .33890 |
| 1.296 | -1.970 | -.32210 | .48280 | .39220 |
| 1.295 | -.918 | -.32200 | .46630 | .39400 |
| 1.294 | .144 | -.32240 | .45760 | .40730 |
| 1.293 | .629 | -.32230 | .44540 | .41320 |
| 1.294 | 1.187 | -.32130 | .43180 | .42480 |
| 1.294 | 2.268 | -.32120 | .41010 | .44500 |
| 1.294 | 3.335 | -.32170 | .39740 | .46670 |
| 1.293 | 4.380 | -.32420 | .38810 | .48950 |
| .292 | 6.462 | -.32000 | .35660 | .53900 |
| | GRADIENT | -.00015 | -.01586 | .01615 |

OAI145 TABULATED FORCE DATA

DATE 10 MAR 80

(E2F040) (06 MAR 80)

AMES 118-1-11 OAI145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 ELEVON = 10.000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BOFLAP = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDBRK = 25.000 RUDDER = .000
SCALE = .0500

RUN NO. 161/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

| | | | | |
|-------|----------|---------|---------|--------|
| MACH | BETA | CP240 | CP12 | CP13 |
| 1.400 | -6.169 | -31270 | .59650 | .36510 |
| 1.404 | -2.012 | -31260 | .51480 | .43860 |
| 1.404 | -.965 | -32480 | .50070 | .44890 |
| 1.404 | .016 | -32290 | .49380 | .46090 |
| 1.403 | .616 | -32390 | .49710 | .46680 |
| 1.403 | 1.128 | -31910 | .48880 | .47070 |
| 1.403 | 2.212 | -31950 | .45470 | .48050 |
| 1.402 | 3.286 | -32330 | .41520 | .49810 |
| 1.403 | 4.348 | -32360 | .40150 | .51910 |
| 1.400 | 6.462 | -30930 | .37270 | .56810 |
| | GRADIENT | -.00083 | -.01881 | .01209 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 ELEVON = 10.000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BOFLAP = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDBRK = 25.000 RUDDER = .000
SCALE = .0500

RUN NO. 0/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

| | | | | | | | | | | | |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
| .598 | -6.055 | -25780 | -25520 | -24880 | -25450 | -31340 | -31340 | -33250 | -34400 | .29950 | -.00910 |
| .597 | -1.956 | -24810 | -24150 | -25000 | -24700 | -31360 | -31360 | -33300 | -34900 | .20730 | .09090 |
| .598 | -.932 | -24040 | -24020 | -24280 | -23950 | -31160 | -31160 | -33400 | -34900 | .18230 | .11750 |
| .598 | .098 | -25390 | -24830 | -24730 | -25160 | -31530 | -31530 | -33890 | -35710 | .15220 | .14120 |
| .600 | .617 | -24560 | -24330 | -23810 | -24750 | -31200 | -31200 | -33710 | -35710 | .14280 | .15950 |
| .599 | 1.108 | -25300 | -24780 | -24760 | -25180 | -32250 | -32250 | -34140 | -36000 | .12420 | .16510 |
| .600 | 2.186 | -25460 | -25180 | -25040 | -24820 | -31650 | -31650 | -34310 | -36450 | .10220 | .19760 |
| .600 | 3.244 | -25540 | -25040 | -25510 | -24810 | -32200 | -32200 | -34770 | -36130 | .07480 | .22100 |
| .600 | 4.285 | -25770 | -25790 | -25660 | -25890 | -32610 | -32610 | -35100 | -36920 | .05220 | .24260 |
| .600 | 6.349 | -26860 | -25870 | -27120 | -27480 | -34050 | -34050 | -35470 | -37640 | .00140 | .28680 |
| .599 | GRADIENT | -.00212 | -.00250 | -.00174 | -.00171 | -.00211 | -.00211 | -.00298 | -.00317 | -.02506 | .02457 |

(E2FY40) (19 JUL 77)

AMES 118-1-11 OAI145A 01

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

AMES 118-1-11 OAI45A 01

(E2FY40) (19 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

ALPHA = 5.000 ELEVON = 10.000
AILRON = .000 BOFLAP = .000
SPDRK = 25.000 RUDDER = .000
RN/L = 5.000

PARAMETRIC DATA

RUN NO. 0/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|---------|---------|---------|---------|--------|--------|---------|---------|---------|---------|
| .800 | -6.090 | -26350 | -26770 | -26110 | -26710 | -33560 | -33560 | -34840 | -36370 | -33610 | -01660 |
| .797 | -1.995 | -27320 | -27340 | -27080 | -26980 | -36140 | -36140 | -36500 | -37890 | -23870 | -11880 |
| .799 | -.936 | -26600 | -27070 | -26600 | -26630 | -35300 | -35300 | -37210 | -38730 | -21440 | -14920 |
| .798 | .107 | -27430 | -27300 | -27360 | -27660 | -35320 | -35320 | -36520 | -38310 | -18910 | -17290 |
| .797 | .561 | -27930 | -27480 | -27180 | -27480 | -34600 | -34600 | -36890 | -38370 | -18400 | -19000 |
| .800 | 1.046 | -26930 | -27870 | -26970 | -26570 | -35280 | -35280 | -36450 | -37730 | -17420 | -20050 |
| .798 | 2.122 | -28260 | -27470 | -26790 | -27920 | -35620 | -35620 | -36240 | -38190 | -13950 | -22620 |
| .800 | 3.171 | -28270 | -28300 | -27440 | -27780 | -35290 | -35290 | -36640 | -38450 | -11660 | -25480 |
| .797 | 4.206 | -30160 | -29580 | -29200 | -28750 | -35590 | -35590 | -37770 | -38830 | -09010 | -27840 |
| .799 | 6.282 | -30870 | -31140 | -29900 | -30310 | -36370 | -36370 | -37910 | -39760 | -04780 | -33110 |
| GRADIENT | | -.00437 | -.00327 | -.00261 | -.00272 | .00033 | .00033 | -.00081 | -.00074 | -.02406 | -.02572 |

RUN NO. 0/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .901 | -6.101 | -28620 | -28840 | -28300 | -28360 | -31470 | -31470 | -31360 | -31880 | -39290 | -06020 |
| .903 | -1.911 | -27570 | -27070 | -27180 | -26830 | -31380 | -31380 | -31440 | -32200 | -29830 | -17110 |
| .901 | -.867 | -28490 | -27390 | -27780 | -27680 | -32290 | -32290 | -32520 | -33530 | -26860 | -19580 |
| .900 | .037 | -27110 | -28070 | -27850 | -27400 | -32900 | -32900 | -32870 | -30030 | -24290 | -21830 |
| .902 | .464 | -27900 | -28150 | -28410 | -27930 | -32460 | -32460 | -33310 | -33130 | -23550 | -23460 |
| .902 | .993 | -28080 | -27620 | -27880 | -27310 | -32900 | -32900 | -31540 | -33070 | -22580 | -24610 |
| .900 | 2.086 | -29180 | -29290 | -29030 | -29050 | -33570 | -33570 | -34010 | -34730 | -19830 | -27100 |
| .901 | 3.158 | -29580 | -28930 | -28380 | -28950 | -33530 | -33530 | -33860 | -35200 | -17890 | -30430 |
| .901 | 4.200 | -29850 | -29560 | -29960 | -30420 | -35300 | -35300 | -35320 | -35850 | -15260 | -32630 |
| .900 | 6.274 | -31420 | -31230 | -30150 | -31830 | -37040 | -37040 | -37490 | -38150 | -09860 | -38190 |
| GRADIENT | | -.00383 | -.00412 | -.00372 | -.00531 | -.00531 | -.00531 | -.00539 | -.00677 | -.02317 | -.02579 |

RUN NO. 0/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .951 | -6.065 | -30070 | -29740 | -29690 | -29720 | -33410 | -33410 | -34370 | -35170 | -41630 | -09430 |
| .950 | -1.921 | -29380 | -29400 | -28990 | -28920 | -34560 | -34560 | -35400 | -36720 | -32130 | -20000 |
| .951 | -.835 | -29660 | -29380 | -29460 | -28990 | -34530 | -34530 | -34610 | -35680 | -29660 | -22890 |
| .952 | .085 | -29730 | -30270 | -30010 | -30240 | -35630 | -35630 | -36090 | -36450 | -27630 | -25200 |
| .951 | .520 | -29920 | -29890 | -28800 | -29100 | -35070 | -35070 | -36280 | -36650 | -26930 | -26390 |
| .951 | 1.065 | -28890 | -29270 | -29530 | -29230 | -35890 | -35890 | -36740 | -37590 | -25860 | -27590 |
| .951 | 2.132 | -28840 | -28390 | -28810 | -28670 | -36200 | -36200 | -36330 | -37440 | -22690 | -30390 |
| .950 | 3.186 | -29140 | -29350 | -29680 | -29390 | -37470 | -37470 | -38280 | -39050 | -19850 | -32940 |
| .950 | 4.225 | -30340 | -30510 | -29710 | -30090 | -39200 | -39200 | -38310 | -39480 | -17370 | -35170 |
| .950 | 6.304 | -30870 | -31400 | -31040 | -30930 | -39340 | -39340 | -40660 | -41630 | -13310 | -41180 |
| GRADIENT | | -.00027 | -.00043 | -.00060 | -.00074 | -.00727 | -.00727 | -.00572 | -.00569 | -.02420 | -.02475 |

REFERENCE DATA

| | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|--------|
| SREF | = | 2690.0000 | SO.FT. | XMRP | = | 1076.6800 | IN. XO |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. YO |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. ZO |
| SCALE | = | .0500 | | | | | |

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | 5.00/ |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|-------|
| 1.294 | -6.122 | -32440 | -32700 | -32590 | -32620 | -33250 | -33250 | -33930 | |
| 1.294 | -1.970 | -31190 | -31570 | -31320 | -31610 | -32210 | -32210 | -32210 | |
| 1.296 | - | -3190 | -31470 | -31260 | -31380 | -32200 | -32200 | -32120 | |
| 1.295 | -918 | -31050 | -31470 | -31470 | -31540 | -32240 | -32240 | -32350 | |
| 1.294 | .144 | -31430 | -31900 | -31870 | -31930 | -32230 | -32230 | -32180 | |
| 1.293 | .629 | -31490 | -31900 | -31290 | -31620 | -32130 | -32130 | -31960 | |
| 1.294 | 1.187 | -31540 | -31580 | -31720 | -31900 | -32120 | -32120 | -32280 | |
| 1.294 | 2.268 | -31580 | -31720 | -31780 | -32030 | -32170 | -32170 | -32550 | |
| 1.294 | 3.335 | -31900 | -31760 | -32300 | -32120 | -32420 | -32420 | -33040 | |
| 1.293 | 4.380 | -32280 | -32470 | -31920 | -31660 | -32000 | -32000 | -32460 | |
| 1.292 | 6.462 | -31780 | -31920 | -31920 | -31660 | -32000 | -32000 | -32460 | |
| | | -00172 | -00095 | -00137 | -00104 | -00015 | -00015 | -00111 | |
| | GRADIENT | | | | | | | | |

| MACH | BETA | RUN NO. | 0 / 0 | RN/L = | 5.00 | GRADIENT INTERVAL = | -5.00/ 5.00 | |
|-------|----------|---------|--------|--------|--------|---------------------|-------------|--------|
| | | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 |
| 1.400 | -6.169 | -30460 | -30680 | -30680 | -30680 | -31270 | -31270 | -33000 |
| 1.400 | -2.012 | -31210 | -31350 | -31300 | -31390 | -31260 | -31260 | -32440 |
| 1.404 | - | -31320 | -31450 | -31490 | -31560 | -32480 | -32480 | -34180 |
| 1.404 | - .965 | -31320 | -31680 | -31680 | -31620 | -32290 | -32290 | -33490 |
| 1.404 | .016 | -31270 | -31480 | -31380 | -31480 | -32390 | -32390 | -34050 |
| 1.403 | .616 | -31100 | -31380 | -31230 | -31300 | -31910 | -31910 | -33130 |
| 1.403 | 1.128 | -31190 | -31390 | -31420 | -31360 | -31950 | -31950 | -33490 |
| 1.403 | 2.212 | -31290 | -31390 | -31350 | -31350 | -32330 | -32330 | -34110 |
| 1.402 | 3.286 | -30880 | -31070 | -31000 | -31090 | -32360 | -32360 | -33610 |
| 1.403 | 4.348 | -30490 | -30560 | -30660 | -30730 | -30930 | -30930 | -32760 |
| | 6.462 | .00046 | .00039 | .00044 | .00053 | .00083 | .00083 | .00100 |
| 1.400 | GRADIENT | | | | | | | |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500
PARAMETRIC DATA
ALPHA = 5.000 ELEVON = 5.000
A1LRON = .000 BOFLAP = .000
SPOBRK = 25.000 RUDDER = .000
RN/L = 5.000

| RUN NO. | 191/ 0 | MACH | BETA | CP240 | CP12 | CP13 | GRADIENT INTERVAL | -5.00/ 5.00 |
|---------|--------|------|----------|---------|---------|---------|-------------------|-------------|
| | | .598 | -6.057 | -.26320 | .30230 | -.01090 | | |
| | | .598 | -1.944 | -.26370 | .20360 | .09090 | | |
| | | .597 | -.890 | -.26500 | .17680 | .11550 | | |
| | | .598 | .082 | -.26070 | .15610 | .14380 | | |
| | | .598 | .541 | -.26790 | .14260 | .15270 | | |
| | | .598 | 1.086 | -.26860 | .12730 | .16720 | | |
| | | .598 | 2.159 | -.27390 | .10050 | .19100 | | |
| | | .598 | 3.228 | -.27220 | .07990 | .22000 | | |
| | | .598 | 4.277 | -.27410 | .05360 | .24320 | | |
| | | .598 | 6.353 | -.28190 | .00790 | .29220 | | |
| | | | GRADIENT | -.00202 | -.02415 | .02460 | | |

| RUN NO. | 119/ 0 | MACH | BETA | CP240 | CP12 | CP13 | GRADIENT INTERVAL | -5.00/ 5.00 |
|---------|--------|------|----------|---------|---------|--------|-------------------|-------------|
| | | .799 | -6.074 | -.27860 | .33340 | .01540 | | |
| | | .798 | -1.958 | -.28460 | .24380 | .12390 | | |
| | | .798 | -.918 | -.29090 | .21100 | .14730 | | |
| | | .799 | .155 | -.28200 | .19050 | .17380 | | |
| | | .798 | .647 | -.29110 | .18110 | .19010 | | |
| | | .799 | 1.161 | -.29810 | .16890 | .19760 | | |
| | | .799 | 2.246 | -.28780 | .14160 | .23260 | | |
| | | .798 | 3.308 | -.29880 | .10870 | .25340 | | |
| | | .798 | 4.352 | -.29720 | .08550 | .28130 | | |
| | | .797 | 6.427 | -.30900 | .03630 | .33060 | | |
| | | | GRADIENT | -.00199 | -.02477 | .02518 | | |

| RUN NO. | 177/ 0 | MACH | BETA | CP240 | CP12 | CP13 | GRADIENT INTERVAL | -5.00/ 5.00 |
|---------|--------|------|----------|---------|---------|--------|-------------------|-------------|
| | | .901 | -6.104 | -.32920 | .39070 | .05980 | | |
| | | .902 | -1.921 | -.31990 | .29680 | .17090 | | |
| | | .900 | -.862 | -.33220 | .26370 | .19200 | | |
| | | .898 | .038 | -.33710 | .23920 | .21420 | | |
| | | .901 | .450 | -.32750 | .23600 | .23140 | | |
| | | .900 | .960 | -.33810 | .22080 | .24160 | | |
| | | .900 | 2.063 | -.32910 | .20090 | .27340 | | |
| | | .899 | 3.136 | -.33780 | .17400 | .29920 | | |
| | | .899 | 4.187 | -.34990 | .15060 | .32480 | | |
| | | .899 | 6.259 | -.36910 | .09510 | .37750 | | |
| | | | GRADIENT | -.00339 | -.02314 | .02588 | | |

0A145 TABULATED FORCE DATA

AMES 118-1-11 0A145A 01

DATE 10 MAR 80

(E2F041) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = 5.000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 25.000 RUDDER = 5.000
 RN/L = 5.000

RUN NO. 130/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .951 | -6.090 | -.33430 | .41470 | .09150 |
| .950 | -1.912 | -.34170 | .32100 | .20250 |
| .952 | -.845 | -.35610 | .29640 | .22850 |
| .951 | .073 | -.36300 | .27590 | .25170 |
| .952 | .484 | -.35230 | .27300 | .26340 |
| .951 | 1.080 | -.35600 | .25750 | .27940 |
| .951 | 2.125 | -.35320 | .22810 | .30650 |
| .951 | 3.188 | -.36220 | .20200 | .33050 |
| .951 | 4.220 | -.37820 | .17850 | .35540 |
| .950 | 6.302 | -.39770 | .12980 | .40830 |
| | GRADIENT | -.00401 | -.02343 | .02514 |

RUN NO. 435/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|--------|
| 1.103 | -6.233 | -.37450 | .54200 | .21580 |
| 1.100 | -2.097 | -.36450 | .44780 | .30380 |
| 1.101 | -1.045 | -.36380 | .42560 | .32860 |
| 1.101 | .016 | -.36190 | .39870 | .35500 |
| 1.101 | .534 | -.35930 | .38740 | .36650 |
| 1.101 | 1.071 | -.35120 | .37410 | .38310 |
| 1.101 | 2.122 | -.34910 | .35500 | .41210 |
| 1.100 | 3.162 | -.35740 | .32960 | .43460 |
| 1.101 | 4.206 | -.35750 | .31600 | .46370 |
| 1.100 | 6.305 | -.36760 | .27540 | .51830 |
| | GRADIENT | .00160 | -.02142 | .02549 |

RUN NO. 168/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|--------|
| 1.199 | -6.102 | -.34240 | .56730 | .27960 |
| 1.200 | -1.924 | -.32250 | .47690 | .34030 |
| 1.199 | -.875 | -.31970 | .45280 | .36230 |
| 1.200 | .029 | -.32040 | .43050 | .38420 |
| 1.200 | .461 | -.31930 | .42270 | .39460 |
| 1.200 | .988 | -.31820 | .41660 | .40890 |
| 1.199 | 2.077 | -.32260 | .39930 | .43410 |
| 1.199 | 3.143 | -.32470 | .38150 | .46070 |
| 1.199 | 4.189 | -.32630 | .36450 | .48660 |
| 1.195 | 6.271 | -.33620 | .32240 | .54190 |
| | GRADIENT | -.00089 | -.01783 | .02415 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(EEF041) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = 5.000
AILRON = .000 BOFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 140/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|--------|
| 1.294 | -6.120 | -.34900 | .56050 | .33850 |
| 1.296 | -2.044 | -.33670 | .48360 | .39090 |
| 1.295 | -1.041 | -.33380 | .46500 | .39230 |
| 1.294 | .015 | -.33340 | .45390 | .40420 |
| 1.294 | .514 | -.33240 | .44770 | .41180 |
| 1.295 | 1.038 | -.33230 | .43720 | .42050 |
| 1.294 | 2.122 | -.33140 | .41210 | .44050 |
| 1.293 | 3.174 | -.33020 | .39810 | .46220 |
| 1.294 | 4.223 | -.32950 | .38940 | .48650 |
| 1.293 | 6.316 | -.33020 | .36130 | .53870 |
| | GRADIENT | .00104 | -.01576 | .01592 |

RUN NO. 160/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|--------|
| 1.401 | -6.164 | -.32250 | .59690 | .36610 |
| 1.406 | -2.003 | -.32360 | .51120 | .43920 |
| 1.405 | -.935 | -.32270 | .50100 | .44970 |
| 1.404 | .093 | -.32170 | .49650 | .46480 |
| 1.403 | .568 | -.32370 | .49310 | .46630 |
| 1.402 | 1.117 | -.32290 | .48820 | .47120 |
| 1.403 | 2.207 | -.32180 | .45660 | .48210 |
| 1.402 | 3.290 | -.32050 | .42060 | .49980 |
| 1.403 | 4.352 | -.32350 | .39970 | .52210 |
| 1.400 | 6.459 | -.31850 | .37380 | .56950 |
| | GRADIENT | .00018 | -.01835 | .01240 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA
AMES 118-1-11 0A145A 01

PAGE 1726
(E2FY41) (19 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8100 INCHES YMRP = .0000 IN. Y0
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = 5.000
AILRON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 0/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .598 | -6.057 | -22790 | -22340 | -22340 | -22370 | -26320 | -26320 | -27500 | -29570 | 30230 | -01090 |
| .598 | -1.944 | -21140 | -21610 | -21330 | -21440 | -26370 | -26370 | -28000 | -29860 | 20380 | 09090 |
| .597 | .089 | -21750 | -21420 | -21700 | -21560 | -26500 | -26500 | -28220 | -30010 | 17680 | 11550 |
| .598 | .082 | -21610 | -21570 | -21680 | -21590 | -26070 | -26070 | -27910 | -30310 | 15610 | 14380 |
| .598 | .541 | -21410 | -21120 | -20890 | -21220 | -26790 | -26790 | -28250 | -30100 | 14260 | 15270 |
| .598 | 1.086 | -21660 | -21520 | -21380 | -21400 | -26860 | -26860 | -27990 | -30440 | 12730 | 16720 |
| .598 | 2.159 | -21470 | -22340 | -22300 | -21990 | -27390 | -27390 | -28520 | -30850 | 10050 | 19100 |
| .598 | 3.228 | -22370 | -22370 | -22510 | -22440 | -27220 | -27220 | -28960 | -31230 | 07980 | 22000 |
| .598 | 4.277 | -22400 | -22350 | -21900 | -22470 | -27410 | -27410 | -28960 | -31160 | 05360 | 24320 |
| .598 | 6.353 | -23100 | -23050 | -23030 | -23220 | -28190 | -28190 | -28330 | -31580 | 00790 | 29220 |
| GRADIENT | | -00174 | -00181 | -00152 | -00191 | -00202 | -00202 | -00152 | -00243 | -02415 | 02460 |

RUN NO. 0/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| .799 | -6.074 | -22900 | -22730 | -23440 | -22900 | -27860 | -27860 | -28440 | -30200 | 33340 | 01540 |
| .798 | -1.958 | -22760 | -22700 | -22420 | -22330 | -28460 | -28460 | -29700 | -31740 | 24380 | 12390 |
| .798 | .918 | -23110 | -22150 | -22960 | -22130 | -29090 | -29090 | -29430 | -32100 | 21100 | 14730 |
| .799 | .155 | -23320 | -23250 | -23210 | -22990 | -28200 | -28200 | -29700 | -31740 | 19050 | 17380 |
| .798 | .647 | -23260 | -23490 | -23200 | -23410 | -29110 | -29110 | -30610 | -32750 | 18110 | 19010 |
| .799 | 1.161 | -23020 | -23320 | -23060 | -23170 | -29810 | -29810 | -30520 | -32660 | 16890 | 19760 |
| .799 | 2.246 | -23740 | -23080 | -23490 | -23640 | -28780 | -28780 | -30370 | -32510 | 14160 | 23260 |
| .798 | 3.308 | -23650 | -23520 | -23370 | -23540 | -29880 | -29880 | -31200 | -32960 | 10870 | 25340 |
| .798 | 4.352 | -23110 | -23770 | -24010 | -24370 | -29720 | -29720 | -31460 | -33000 | 08550 | 28130 |
| .798 | 6.427 | -25420 | -24850 | -25380 | -25660 | -30900 | -30900 | -32090 | -33690 | 03630 | 33060 |
| GRADIENT | | -00085 | -00189 | -00198 | -00319 | -00199 | -00199 | -00315 | -00204 | -02477 | 02518 |

RUN NO. 0/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| .901 | -6.104 | -25810 | -25490 | -25590 | -25210 | -32920 | -32920 | -33140 | -33980 | 39070 | 05980 |
| .902 | -1.921 | -24220 | -24110 | -24050 | -24690 | -31990 | -31990 | -32000 | -32920 | 29680 | 17090 |
| .900 | .862 | -25400 | -25180 | -25100 | -24990 | -33220 | -33220 | -33430 | -33050 | 26370 | 19200 |
| .908 | .038 | -25790 | -25880 | -25620 | -25550 | -33710 | -33710 | -33940 | -34180 | 23920 | 21420 |
| .901 | .450 | -25130 | -25490 | -24590 | -25200 | -32750 | -32750 | -32960 | -32160 | 23600 | 23140 |
| .900 | .960 | -24840 | -25200 | -26270 | -25260 | -33810 | -33810 | -33130 | -34390 | 22080 | 24160 |
| .900 | 2.063 | -24870 | -25480 | -25600 | -25360 | -32910 | -32910 | -32910 | -32920 | 20090 | 27340 |
| .899 | 3.136 | -26690 | -26300 | -26740 | -26860 | -33780 | -33780 | -34460 | -33780 | 17400 | 29920 |
| .899 | 4.187 | -27000 | -26640 | -27240 | -27330 | -34990 | -34990 | -35150 | -35690 | 15060 | 32480 |
| .899 | 6.259 | -28520 | -28900 | -28210 | -29430 | -36910 | -36910 | -37570 | -37240 | 09510 | 37750 |
| GRADIENT | | -00362 | -00331 | -00469 | -00413 | -00339 | -00339 | -00392 | -00328 | -02314 | 02548 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

AMES 118-1-11 OAI45A 01

(EEFY41) (19 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 ELEVON = 5.000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BDFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPOBRK = 25.000 RUDDER = .000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| .951 | -6.090 | -27850 | -27890 | -28300 | -28130 | -33430 | -33430 | -34480 | -34470 | .41470 | .09150 |
| .950 | -1.912 | -26440 | -26240 | -26070 | -26570 | -34170 | -34170 | -35410 | -35850 | .32100 | .20250 |
| .952 | -.845 | -27600 | -27120 | -26560 | -27510 | -35610 | -35610 | -35890 | -36450 | .29640 | .22850 |
| .951 | .073 | -27660 | -27810 | -27150 | -27430 | -36300 | -36300 | -36530 | -36450 | .27580 | .25170 |
| .952 | .484 | -27340 | -27180 | -26950 | -27110 | -35230 | -35230 | -37340 | -37270 | .27300 | .26340 |
| .951 | 1.080 | -27360 | -27320 | -27390 | -27010 | -35600 | -35600 | -36300 | -37090 | .25750 | .27940 |
| .951 | 2.125 | -26850 | -26200 | -26620 | -26120 | -35320 | -35320 | -36180 | -36540 | .22810 | .30650 |
| .951 | 3.188 | -27060 | -27090 | -27080 | -27290 | -36220 | -36220 | -37310 | -37640 | .20200 | .33050 |
| .951 | 4.220 | -28080 | -28680 | -29040 | -28230 | -37820 | -37820 | -38000 | -37860 | .17850 | .35540 |
| .951 | 6.302 | -29970 | -29840 | -29810 | -29670 | -39770 | -39770 | -40550 | -41620 | .12980 | .40830 |
| .950 | GRADIENT | -00105 | -00197 | -00330 | -00115 | -00401 | -00401 | -00340 | -00287 | -.02343 | .02514 |

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| 1.294 | -6.120 | -33040 | -33110 | -33150 | -33210 | -34900 | -34900 | -34910 | -35050 | .56050 | .33850 |
| 1.296 | -2.044 | -31300 | -31560 | -31420 | -31580 | -33670 | -33670 | -33980 | -34090 | .48360 | .39090 |
| 1.295 | -1.041 | -31220 | -31390 | -31630 | -31530 | -33380 | -33380 | -32990 | -33180 | .46600 | .39230 |
| 1.294 | .015 | -31410 | -31380 | -31680 | -31910 | -33340 | -33340 | -33850 | -33920 | .45390 | .40420 |
| 1.294 | .514 | -31840 | -31790 | -31760 | -31840 | -33240 | -33240 | -33630 | -33610 | .44770 | .41180 |
| 1.295 | 1.038 | -31600 | -31320 | -31490 | -31510 | -33230 | -33230 | -33270 | -33760 | .42050 | .42050 |
| 1.294 | 2.122 | -31420 | -31780 | -31300 | -31620 | -33140 | -33140 | -32960 | -33210 | .41210 | .44050 |
| 1.293 | 3.174 | -32110 | -32170 | -32100 | -32100 | -33020 | -33020 | -33130 | -33530 | .39810 | .46220 |
| 1.294 | 4.223 | -32180 | -32280 | -32400 | -32400 | -32950 | -32950 | -33340 | -33410 | .38940 | .48650 |
| 1.293 | 6.316 | -32040 | -32210 | -32060 | -31990 | -33020 | -33020 | -33510 | -33890 | .36130 | .53870 |
| .950 | GRADIENT | -00146 | -00139 | -00118 | -00112 | -00104 | -00104 | -00089 | -00069 | -.01576 | .01592 |

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| 1.401 | -6.164 | -31000 | -31150 | -31220 | -31130 | -32250 | -32250 | -33010 | -32900 | .59690 | .36610 |
| 1.406 | -2.003 | -31350 | -31620 | -31690 | -31740 | -32360 | -32360 | -33150 | -33920 | .51120 | .43920 |
| 1.405 | -.935 | -31410 | -31610 | -31680 | -31690 | -32270 | -32270 | -33540 | -33430 | .50100 | .44970 |
| 1.404 | .093 | -31640 | -31640 | -31820 | -31770 | -32170 | -32170 | -33320 | -33750 | .49650 | .46480 |
| 1.403 | .568 | -31740 | -31830 | -31770 | -32040 | -32370 | -32370 | -33190 | -33520 | .49310 | .46620 |
| 1.402 | 1.117 | -31770 | -31670 | -31780 | -31890 | -32290 | -32290 | -33110 | -33660 | .48820 | .47120 |
| 1.403 | 2.207 | -31580 | -31710 | -31630 | -31580 | -32180 | -32180 | -33310 | -33550 | .45660 | .48210 |
| 1.402 | 3.290 | -31550 | -31740 | -31640 | -31720 | -32050 | -32050 | -33290 | -33530 | .42050 | .49980 |
| 1.403 | 4.352 | -31310 | -30870 | -31930 | -31720 | -32350 | -32350 | -33160 | -33000 | .39970 | .52210 |
| 1.403 | 6.459 | -30930 | -31020 | -31010 | -31050 | -31850 | -31850 | -33140 | -33030 | .37380 | .56950 |
| 1.400 | GRADIENT | .05428 | .01105 | .01279 | .02419 | .00018 | .00018 | .00038 | .03471 | -.01835 | .01240 |

(E2F042) (06 MAR 80)

PARAMETRIC DATA

| | | | | | |
|--------|---|--------|--------|---|--------|
| ALPHA | = | 5.000 | ELEVON | = | -5.000 |
| AILRON | = | .000 | BDFLAP | = | .000 |
| SPDBRK | = | 25.000 | RUDDER | = | .000 |
| RN/L | = | 5.000 | | | |

0A145 TABULATED FORCE DATA
AMES 118-1-11 0A145A 01

REFERENCE DATA

| | | | | | | | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|--------|--------|---|--------|--------|---|------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. X0 | AL | = | .000 | BDFLAP | = | .000 |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. Y0 | ATLRON | = | .000 | RUDDER | = | .000 |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. Z0 | SPDBRK | = | 25.000 | | | |
| SCALE | = | .0500 | | | | | | RN/L | = | 5.000 | | | |

GRADIENT INTERVAL = -5.00/ 5.00

| | | | | |
|------|----------|---------|---------|---------|
| MACH | BETA | CP240 | CP12 | CP13 |
| .598 | -6.039 | -24040 | .29640 | -.00970 |
| .598 | -1.923 | -23530 | .20390 | .09190 |
| .597 | -.880 | -23640 | .17750 | .11590 |
| .597 | .085 | -23720 | .15370 | .13970 |
| .598 | .540 | -23650 | .14250 | .15330 |
| .597 | 1.069 | -24010 | .12590 | .16350 |
| .598 | 2.144 | -23820 | .10190 | .19200 |
| .597 | 3.209 | -23990 | .07470 | .21750 |
| .597 | 4.273 | -23470 | .05480 | .24510 |
| .597 | 6.357 | -23990 | .00230 | .29320 |
| | GRADIENT | -.00022 | -.02444 | .02478 |

| | | | |
|--|-----|-------|---------------------------------|
| | PMV | -0.97 | GRADIENT INTERVAL = -5.00/ 5.00 |
|--|-----|-------|---------------------------------|

| MACH | BETA | CP2=0 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .799 | -6.062 | -.25160 | .33230 | .01470 |
| .798 | -1.968 | -.26650 | .23380 | .11600 |
| .799 | -.851 | -.25580 | .21330 | .15140 |
| .798 | .129 | -.26500 | .19200 | .17180 |
| .799 | .573 | -.26440 | .18560 | .18470 |
| .799 | 1.126 | -.25990 | .17300 | .20250 |
| .797 | 2.212 | -.26660 | .13450 | .22750 |
| .799 | 3.290 | -.26420 | .11140 | .25510 |
| .799 | 4.350 | -.26700 | .08600 | .28010 |
| .798 | 6.437 | -.26600 | .03430 | .33310 |
| | GRADIENT | -.00065 | -.02418 | .02577 |

| | | | | | |
|------|---|------|---------------------|--------|------|
| 1.76 | 0 | 5.01 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|------|---|------|---------------------|--------|------|

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .900 | -6.107 | -.32510 | .39030 | .06090 |
| .900 | -1.911 | -.31870 | .29280 | .17160 |
| .901 | -.850 | -.32530 | .26460 | .19410 |
| .899 | .038 | -.31730 | .23980 | .21660 |
| .900 | .443 | -.32500 | .23270 | .22820 |
| .901 | .954 | -.32120 | .22340 | .24330 |
| .898 | 2.041 | -.33000 | .19580 | .26700 |
| .900 | 3.119 | -.33140 | .17380 | .29450 |
| .901 | 4.179 | -.32580 | .15610 | .32600 |
| | 6.245 | -.33000 | .09880 | .37810 |
| .898 | GRADIENT | -.00162 | -.02245 | .02533 |

OAI45 TABULATED FORCE DATA

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8100 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0500

(E2F042) (06 MAR 80)

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = -5.000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

| RUN NO. | 129/ 0 | MACH | BETA | CP240 | CP12 | CP13 | GRADIENT INTERVAL | RN/L | 5.00/ 5.00 |
|---------|--------|------|----------|---------|---------|--------|-------------------|------|------------|
| | | .951 | -6.120 | -.33410 | .41680 | .09440 | | | |
| | | .951 | -1.895 | -.33070 | .32110 | .20550 | | | |
| | | .951 | -.826 | -.32900 | .29600 | .23060 | | | |
| | | .951 | .074 | -.33270 | .27600 | .25310 | | | |
| | | .951 | .473 | -.33720 | .26960 | .26360 | | | |
| | | .951 | 1.037 | -.33440 | .26060 | .27800 | | | |
| | | .951 | 2.118 | -.33170 | .22840 | .30300 | | | |
| | | .952 | 3.190 | -.33580 | .20400 | .33150 | | | |
| | | .952 | 4.230 | -.34590 | .17910 | .35790 | | | |
| | | .950 | 6.306 | -.35430 | .13290 | .41080 | | | |
| | | | GRADIENT | -.00197 | -.02318 | .02492 | | | |

| RUN NO. | 434/ 0 | MACH | BETA | CP240 | CP12 | CP13 | GRADIENT INTERVAL | RN/L | 5.00/ 5.00 |
|---------|--------|-------|----------|---------|---------|--------|-------------------|------|------------|
| | | 1.102 | -6.203 | -.34090 | .54450 | .21710 | | | |
| | | 1.102 | -2.082 | -.34230 | .44940 | .30620 | | | |
| | | 1.101 | -1.040 | -.34030 | .42540 | .33310 | | | |
| | | 1.102 | .101 | -.33890 | .40030 | .35920 | | | |
| | | 1.101 | .694 | -.34240 | .38420 | .37030 | | | |
| | | 1.102 | 1.170 | -.33290 | .37610 | .38680 | | | |
| | | 1.101 | 2.213 | -.33420 | .35020 | .41010 | | | |
| | | 1.100 | 3.259 | -.32460 | .33260 | .43860 | | | |
| | | 1.101 | 4.303 | -.34070 | .30760 | .46230 | | | |
| | | 1.100 | 6.388 | -.33980 | .27210 | .51900 | | | |
| | | | GRADIENT | .00145 | -.02211 | .02460 | | | |

| RUN NO. | 167/ 0 | MACH | BETA | CP240 | CP12 | CP13 | GRADIENT INTERVAL | RN/L | 5.00/ 5.00 |
|---------|--------|-------|----------|---------|---------|--------|-------------------|------|------------|
| | | 1.199 | -6.118 | -.31550 | .56410 | .28060 | | | |
| | | 1.202 | -1.908 | -.31480 | .47490 | .34090 | | | |
| | | 1.199 | -.865 | -.31360 | .45100 | .36290 | | | |
| | | 1.201 | .035 | -.31440 | .43190 | .38490 | | | |
| | | 1.200 | .445 | -.31130 | .42340 | .39460 | | | |
| | | 1.200 | .967 | -.30970 | .41730 | .41000 | | | |
| | | 1.198 | 2.061 | -.31350 | .39980 | .43610 | | | |
| | | 1.199 | 3.144 | -.31840 | .38110 | .45820 | | | |
| | | 1.199 | 4.192 | -.31420 | .36420 | .48970 | | | |
| | | 1.198 | 6.275 | -.32520 | .32340 | .53630 | | | |
| | | | GRADIENT | -.00032 | -.01766 | .02431 | | | |

OAI45 TABULATED FORCE DATA

(E2F042) (06 MAR 80)

DATE 10 MAR 80

AMES 11B-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = -5.000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 139/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|--------|---------|--------|
| 1.293 | -6.140 | .33050 | .55980 | .33680 |
| 1.297 | -2.045 | .32170 | .48430 | .39220 |
| 1.295 | -1.014 | .32120 | .46770 | .39470 |
| 1.295 | .078 | .32080 | .45320 | .40590 |
| 1.294 | .596 | .31770 | .44590 | .41270 |
| 1.294 | 1.136 | .31890 | .43670 | .42020 |
| 1.294 | 2.149 | .31730 | .41620 | .44040 |
| 1.294 | 3.189 | .31440 | .40130 | .46290 |
| 1.294 | 4.228 | .31270 | .39060 | .48720 |
| 1.292 | 6.316 | .31410 | .35820 | .53330 |
| | GRADIENT | .00149 | -.01542 | .01566 |

RUN NO. 159/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|--------|---------|--------|
| 1.401 | -6.157 | .31010 | .59170 | .36660 |
| 1.406 | -2.000 | .31360 | .50920 | .43840 |
| 1.405 | .937 | .31200 | .49800 | .45130 |
| 1.405 | .092 | .31150 | .48750 | .46290 |
| 1.404 | .560 | .31410 | .49040 | .46730 |
| 1.405 | 1.110 | .31320 | .48640 | .47080 |
| 1.403 | 2.197 | .31320 | .45560 | .47970 |
| 1.402 | 3.282 | .31280 | .41820 | .49680 |
| 1.404 | 4.348 | .30870 | .40410 | .51900 |
| 1.400 | 6.469 | .30440 | .37040 | .58840 |
| | GRADIENT | .00642 | -.01742 | .01183 |

OAI45 TABULATED FORCE DATA

AMES 118-1-11 OAI45A 01

DATE 10 MAR 80

(EEFY42) (19 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA =
 AILRON =
 SPOBRK =
 RN/L =
 5.000 ELEVON = -5.000
 .000 BDFLAP = .000
 25.000 RUDDER = .000
 5.000

RUN NO. 0/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| .598 | -6.039 | -20390 | -20460 | -20030 | -20590 | -24040 | -24040 | -24610 | -25640 | .29640 | -.00970 |
| .598 | -1.923 | -19280 | -19640 | -19590 | -19380 | -23530 | -23530 | -24210 | -25010 | .20390 | -.09190 |
| .597 | -.880 | -19560 | -19750 | -19020 | -19560 | -23640 | -23640 | -24400 | -24870 | .17750 | .11590 |
| .597 | .085 | -19550 | -19780 | -19500 | -19480 | -23720 | -23720 | -23820 | -25090 | .15370 | .13970 |
| .598 | .540 | -19580 | -19390 | -19250 | -19580 | -23650 | -23650 | -24220 | -25280 | .14250 | .15330 |
| .597 | 1.069 | -19570 | -19320 | -19590 | -19620 | -24010 | -24010 | -24080 | -25210 | .12590 | .16350 |
| .598 | 2.144 | -19840 | -19910 | -19670 | -19910 | -23820 | -23820 | -24130 | -24880 | .10190 | .19200 |
| .597 | 3.209 | -20560 | -20630 | -20560 | -20420 | -23990 | -23990 | -24430 | -25830 | .07470 | .21750 |
| .597 | 4.273 | -20260 | -20210 | -20140 | -19950 | -23470 | -23470 | -24530 | -24930 | .05480 | .24510 |
| .597 | 6.357 | -20720 | -20160 | -20720 | -20750 | -23990 | -23990 | -24340 | -25120 | .00230 | .29320 |
| .597 | GRADIENT | -00184 | -00134 | -00177 | -00136 | -00022 | -00022 | -00047 | -00047 | -.02444 | -.02478 |

RUN NO. 0/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| .799 | -6.062 | -21200 | -21390 | -20510 | -21050 | -26160 | -26160 | -26440 | -27270 | .33230 | .01470 |
| .798 | -1.988 | -20240 | -20530 | -20560 | -20790 | -26650 | -26650 | -26610 | -27490 | .23380 | .11600 |
| .799 | -.851 | -20390 | -20610 | -20480 | -20440 | -25580 | -25580 | -26910 | -27340 | .21330 | .15140 |
| .798 | .129 | -20460 | -20830 | -20400 | -20190 | -26500 | -26500 | -26500 | -28040 | .19200 | .17180 |
| .799 | .573 | -20470 | -20220 | -20580 | -19980 | -26440 | -26440 | -27000 | -27620 | .18560 | .18470 |
| .799 | 1.126 | -20130 | -20540 | -20020 | -20560 | -25990 | -25990 | -26340 | -27690 | .17300 | .20250 |
| .797 | 2.212 | -21140 | -20460 | -20820 | -20990 | -26660 | -26660 | -27600 | -27950 | .13450 | .22750 |
| .799 | 3.290 | -20750 | -20800 | -21250 | -20880 | -26420 | -26420 | -27300 | -28480 | .11140 | .25510 |
| .799 | 4.350 | -21380 | -21270 | -21400 | -20880 | -26700 | -26700 | -27050 | -28570 | .08600 | .28010 |
| .799 | 6.437 | -21300 | -21260 | -21450 | -21260 | -26500 | -26500 | -26520 | -27740 | .03430 | .33310 |
| .798 | GRADIENT | -00167 | -00085 | -00155 | -00078 | -00065 | -00065 | -00107 | -00189 | -.02418 | -.02577 |

RUN NO. 0/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| .900 | -6.107 | -22500 | -22380 | -22400 | -22570 | -32510 | -32510 | -32120 | -32530 | .39030 | .06090 |
| .900 | -1.911 | -20610 | -20270 | -21220 | -20930 | -31870 | -31870 | -33210 | -32820 | .29280 | .17160 |
| .901 | -.850 | -20980 | -21060 | -21130 | -21250 | -32530 | -32530 | -32960 | -33060 | .26460 | .19410 |
| .899 | .038 | -21520 | -21040 | -21480 | -21730 | -31730 | -31730 | -31520 | -32650 | .23980 | .21660 |
| .900 | .443 | -21000 | -21260 | -20990 | -21170 | -32500 | -32500 | -32510 | -32960 | .23270 | .22820 |
| .901 | .954 | -21230 | -20770 | -21330 | -21210 | -32120 | -32120 | -32170 | -32700 | .22340 | .24330 |
| .901 | 2.041 | -21720 | -21650 | -21940 | -22200 | -33000 | -33000 | -33240 | -33690 | .19580 | .26700 |
| .898 | 3.119 | -21770 | -21940 | -22350 | -21670 | -33140 | -33140 | -33100 | -33690 | .17380 | .29450 |
| .900 | 4.179 | -22420 | -22180 | -22350 | -22060 | -32580 | -32580 | -32540 | -33120 | .15610 | .32600 |
| .901 | 6.245 | -23650 | -23580 | -23720 | -23770 | -33000 | -33000 | -33330 | -34610 | .09880 | .37810 |
| .898 | GRADIENT | -00262 | -00287 | -00207 | -00187 | -00162 | -00162 | -00007 | -00043 | -.02245 | -.02533 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(E2FY42) (19 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

ALPHA =
ATILRON =
SPDBRK =
RN/L =

ELEVON =
BDFLAP =
RUDDER =
RN/L =

PARAMETRIC DATA

| RUN NO. 0/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | |
|--|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 |
| .951 | -6.120 | -23970 | -23720 | -24050 | -23570 | -33410 | -33410 | -34120 | -35410 |
| .951 | -1.895 | -21340 | -21230 | -21520 | -21420 | -33070 | -33070 | -33900 | -34820 |
| .951 | -.826 | -21420 | -21420 | -21280 | -21360 | -32900 | -32900 | -33750 | -34250 |
| .951 | .074 | -22430 | -22440 | -22250 | -22330 | -33270 | -33270 | -34520 | -34340 |
| .951 | .473 | -22990 | -22460 | -22430 | -22250 | -33720 | -33720 | -34480 | -34580 |
| .951 | 1.037 | -21170 | -22000 | -22020 | -21930 | -33440 | -33440 | -34140 | -34640 |
| .951 | 2.118 | -21460 | -21430 | -21730 | -21760 | -33170 | -33170 | -34020 | -34760 |
| .951 | 3.190 | -21760 | -22370 | -22420 | -22300 | -33580 | -33580 | -34000 | -34370 |
| .952 | 4.230 | -23130 | -23180 | -23550 | -24010 | -34590 | -34590 | -35430 | -35460 |
| .952 | 6.306 | -26100 | -24740 | -25010 | -24880 | -35430 | -35430 | -37280 | -38010 |
| .950 | GRADIENT | -00155 | -00225 | -00266 | -00315 | -00197 | -00197 | -00155 | -00092 |

CP12
CP13
CP246
CP243
CP240
CP237
CP234
CP231
CP228
CP225

| RUN NO. 0/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | |
|--|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 |
| 1.293 | -6.140 | -31740 | -31890 | -31920 | -31900 | -33050 | -33050 | -33520 | -33570 |
| 1.297 | -2.045 | -31030 | -30880 | -30750 | -30750 | -32170 | -32170 | -32430 | -32930 |
| 1.295 | -1.014 | -30720 | -30830 | -30540 | -30620 | -32120 | -32120 | -32540 | -32650 |
| 1.295 | .078 | -30770 | -30660 | -30690 | -30430 | -32080 | -32080 | -32650 | -33020 |
| 1.294 | .596 | -30970 | -30830 | -30780 | -30500 | -31770 | -31770 | -32270 | -32450 |
| 1.294 | 1.136 | -30650 | -30490 | -30570 | -30750 | -31890 | -31890 | -32150 | -32280 |
| 1.294 | 2.149 | -30980 | -30750 | -30800 | -30850 | -31730 | -31730 | -32090 | -32400 |
| 1.294 | 3.189 | -31250 | -30680 | -31050 | -30820 | -31440 | -31440 | -32150 | -32480 |
| 1.294 | 4.228 | -31510 | -31120 | -31030 | -31110 | -31270 | -31270 | -32170 | -32120 |
| 1.292 | 6.316 | -31050 | -30710 | -30710 | -30750 | -31410 | -31410 | -32080 | -31950 |
| | GRADIENT | -00091 | -00016 | -00066 | -00068 | -00149 | -00149 | -00072 | -00113 |

CP12
CP13
CP246
CP243
CP240
CP237
CP234
CP231
CP228
CP225

| RUN NO. 0/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | |
|--|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 |
| 1.401 | -6.157 | -30480 | -30380 | -30320 | -30420 | -31010 | -31010 | -31430 | -31600 |
| 1.406 | -2.000 | -31180 | -31050 | -31070 | -30880 | -31360 | -31360 | -31860 | -32290 |
| 1.405 | -.937 | -31020 | -30780 | -30750 | -30750 | -31200 | -31200 | -31690 | -32230 |
| 1.405 | .092 | -30830 | -30670 | -30840 | -30790 | -31150 | -31150 | -31800 | -32180 |
| 1.404 | .560 | -30950 | -30820 | -30820 | -30790 | -31410 | -31410 | -31850 | -32230 |
| 1.405 | 1.110 | -30740 | -30750 | -30730 | -30620 | -31320 | -31320 | -32080 | -32080 |
| 1.405 | 2.197 | -30990 | -30810 | -30810 | -31010 | -31320 | -31320 | -31950 | -32460 |
| 1.403 | 3.282 | -30550 | -30570 | -30480 | -30610 | -31280 | -31280 | -32090 | -32460 |
| 1.402 | 4.348 | -30250 | -30040 | -30040 | -30080 | -30870 | -30870 | -31930 | -31720 |
| 1.404 | 6.469 | -29650 | -29450 | -29580 | -29410 | -30440 | -30440 | -31450 | -31650 |
| 1.400 | GRADIENT | -00122 | -00114 | -00125 | -00085 | -00042 | -00042 | -00040 | -00068 |

CP12
CP13
CP246
CP243
CP240
CP237
CP234
CP231
CP228
CP225

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = -10.000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 189/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .598 | -6.025 | -.25510 | .29680 | -.00910 |
| .597 | -1.915 | -.24950 | .20240 | .09010 |
| .598 | -.872 | -.24930 | .17630 | .11390 |
| .597 | .085 | -.25170 | .15330 | .13540 |
| .598 | .533 | -.24910 | .14020 | .15010 |
| .598 | 1.063 | -.24490 | .12710 | .16680 |
| .598 | 2.139 | -.25040 | .09940 | .19090 |
| .598 | 3.205 | -.24590 | .07760 | .21910 |
| .597 | 4.272 | -.24980 | .05040 | .23940 |
| .597 | 6.356 | -.24080 | .00290 | .29480 |
| | GRADIENT | .00025 | -.02454 | .02480 |

RUN NO. 117/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .799 | -6.050 | -.25660 | .33050 | .01470 |
| .799 | -1.935 | -.26130 | .23710 | .12290 |
| .799 | -.888 | -.26230 | .20870 | .14580 |
| .799 | .106 | -.25830 | .18400 | .16930 |
| .800 | .595 | -.26330 | .18440 | .18700 |
| .799 | 1.118 | -.26750 | .17200 | .19860 |
| .798 | 2.208 | -.26650 | .13620 | .22690 |
| .798 | 3.287 | -.26810 | .11080 | .25370 |
| .799 | 4.349 | -.26530 | .08610 | .28020 |
| .798 | 6.439 | -.26320 | .03760 | .33230 |
| | GRADIENT | -.00109 | -.02393 | .02540 |

RUN NO. 175/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .900 | -6.126 | -.31570 | .39280 | .06070 |
| .900 | -1.870 | -.30870 | .28940 | .17040 |
| .902 | -.832 | -.30950 | .26990 | .19970 |
| .900 | .039 | -.31070 | .24130 | .21770 |
| .899 | .420 | -.31380 | .23310 | .22610 |
| .899 | .944 | -.31180 | .22180 | .24170 |
| .900 | 2.029 | -.31290 | .19950 | .26900 |
| .900 | 3.108 | -.30650 | .17980 | .29930 |
| .899 | 4.167 | -.31440 | .15140 | .32320 |
| .898 | 6.235 | -.31100 | .09390 | .37520 |
| | GRADIENT | -.00039 | -.02261 | .02541 |

OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = -10.000
AILRON = .000 BOFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 128/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .953 | -6.085 | -.30280 | .41590 | .09680 |
| .952 | -1.951 | -.30300 | .31870 | .20090 |
| .951 | -.798 | -.31010 | .29320 | .22860 |
| .951 | .072 | -.30770 | .27140 | .25110 |
| .952 | .463 | -.30360 | .27000 | .26410 |
| .951 | 1.027 | -.30890 | .25900 | .27590 |
| .951 | 2.110 | -.30830 | .22980 | .30230 |
| .950 | 3.179 | -.31050 | .20250 | .33060 |
| .951 | 4.220 | -.32610 | .17530 | .35370 |
| .949 | 6.296 | -.33240 | .12960 | .40720 |
| | GRADIENT | -.00262 | -.02304 | .02497 |

RUN NO. 433/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|--------|
| 1.102 | -6.176 | -.32980 | .53960 | .21660 |
| 1.102 | -2.052 | -.31100 | .44680 | .30460 |
| 1.101 | -1.004 | -.30620 | .42110 | .32990 |
| 1.102 | .095 | -.29980 | .40230 | .35930 |
| 1.101 | .665 | -.29770 | .38570 | .37180 |
| 1.101 | 1.165 | -.29490 | .37520 | .38630 |
| 1.099 | 2.221 | -.29620 | .35090 | .41040 |
| 1.100 | 3.267 | -.29530 | .32810 | .43760 |
| 1.100 | 4.312 | -.29400 | .31020 | .46470 |
| 1.098 | 6.394 | -.30810 | .26910 | .51740 |
| | GRADIENT | .00253 | -.02173 | .02511 |

RUN NO. 166/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|--------|
| 1.202 | -6.156 | -.31650 | .56570 | .28170 |
| 1.203 | -1.901 | -.28530 | .47410 | .34200 |
| 1.200 | -.854 | -.28140 | .45130 | .36350 |
| 1.201 | .036 | -.27770 | .43240 | .38700 |
| 1.200 | .444 | -.29580 | .42310 | .39420 |
| 1.199 | .958 | -.28630 | .41530 | .40760 |
| 1.197 | 2.062 | -.30100 | .39830 | .43440 |
| 1.199 | 3.142 | -.30230 | .38210 | .46110 |
| 1.199 | 4.193 | -.30620 | .36460 | .48810 |
| 1.195 | 6.277 | -.31140 | .32200 | .54160 |
| | GRADIENT | -.00441 | -.01756 | .02411 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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(E2F043) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 ELEVON = -10.000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BDFLAP = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDBRK = 25.000 RUDDER = .000
SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 138/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|--------|
| 1.298 | -6.094 | -.33820 | .56220 | .33910 |
| 1.299 | -1.948 | -.31420 | .48340 | .39610 |
| 1.297 | -.887 | -.31130 | .46840 | .39940 |
| 1.294 | .166 | -.31220 | .45200 | .40630 |
| 1.295 | .628 | -.31100 | .44720 | .41510 |
| 1.294 | 1.183 | -.31240 | .43490 | .42440 |
| 1.293 | 2.277 | -.31230 | .40940 | .44400 |
| 1.294 | 3.348 | -.30740 | .39880 | .46830 |
| 1.294 | 4.397 | -.31340 | .38830 | .49000 |
| 1.294 | 6.488 | -.31440 | .36060 | .54200 |
| | GRADIENT | .00033 | -.01584 | .01559 |

RUN NO. 158/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|--------|
| 1.406 | -6.157 | -.31080 | .58950 | .36530 |
| 1.407 | -1.973 | -.31060 | .50740 | .44010 |
| 1.406 | -.914 | -.31240 | .49470 | .44980 |
| 1.405 | -.019 | -.31290 | .48750 | .46070 |
| 1.403 | .559 | -.31680 | .48930 | .46640 |
| 1.403 | 1.100 | -.31500 | .48020 | .46880 |
| 1.404 | 2.190 | -.31590 | .45530 | .47960 |
| 1.403 | 3.275 | -.31860 | .42110 | .49950 |
| 1.402 | 4.345 | -.31570 | .40110 | .52150 |
| 1.399 | 6.469 | -.31010 | .36950 | .56370 |
| | GRADIENT | -.00099 | -.01719 | .01231 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(E2FY43) (19 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA =
AILRON =
SPDBRK =
RN/L =
5.000
.000
25.000
5.000
ELEVON = -10.000
BDFLAP = .000
RUDDER = .000

RUN NO. 0/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 1.293 | -6.085 | -22790 | -22710 | -22810 | -22730 | -30280 | -30280 | -31200 | -32040 | .41590 | .09680 |
| 1.298 | -1.951 | -20920 | -20790 | -20360 | -20480 | -30300 | -30300 | -30710 | -31460 | .31870 | .20090 |
| 1.297 | -.798 | -20600 | -20560 | -21030 | -21110 | -31010 | -31010 | -31570 | -31690 | .29320 | .22860 |
| 1.294 | .072 | -21340 | -21370 | -21140 | -21200 | -30770 | -30770 | -31190 | -31750 | .27140 | .25110 |
| 1.295 | .463 | -20530 | -20570 | -20790 | -20290 | -30360 | -30360 | -30340 | -31550 | .27000 | .26410 |
| 1.291 | 1.027 | -20540 | -20640 | -20790 | -20700 | -30890 | -30890 | -31670 | -31470 | .25900 | .27590 |
| 1.291 | 2.110 | -20460 | -20680 | -20790 | -20840 | -30830 | -30830 | -31570 | -31720 | .22980 | .30230 |
| 1.290 | 3.179 | -20710 | -21020 | -20860 | -20840 | -31050 | -31050 | -31740 | -31540 | .20250 | .33060 |
| 1.291 | 4.220 | -22300 | -22660 | -22200 | -21920 | -32610 | -32610 | -32830 | -33110 | .17530 | .35370 |
| 1.291 | 6.296 | -23680 | -23570 | -23450 | -23650 | -33240 | -33240 | -33930 | -33900 | .12960 | .40720 |
| 1.294 | GRADIENT | -.00131 | -.00214 | -.00175 | -.00135 | -.00262 | -.00262 | -.00273 | -.00168 | -.02304 | .02497 |

RUN NO. 0/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|---------|---------|---------|---------|--------|--------|---------|--------|---------|--------|
| 1.298 | -6.094 | -31650 | -31710 | -31820 | -31890 | -33820 | -33820 | -33850 | -32810 | .56220 | .33910 |
| 1.299 | -1.948 | -30390 | -30650 | -30610 | -30430 | -31420 | -31420 | -31590 | -31880 | .48340 | .39610 |
| 1.297 | -.887 | -30780 | -30460 | -30490 | -30320 | -31130 | -31130 | -31710 | -31570 | .46840 | .39940 |
| 1.294 | .166 | -30940 | -30820 | -30550 | -30740 | -31220 | -31220 | -31950 | -32050 | .45200 | .40630 |
| 1.295 | .628 | -31020 | -30680 | -30280 | -30430 | -31100 | -31100 | -31820 | -31670 | .44720 | .41510 |
| 1.294 | 1.183 | -30750 | -30530 | -30310 | -30600 | -31240 | -31240 | -31670 | -31880 | .43490 | .42440 |
| 1.293 | 2.277 | -31270 | -30880 | -30870 | -31000 | -31230 | -31230 | -31800 | -31960 | .40940 | .44400 |
| 1.294 | 3.348 | -30880 | -30950 | -30660 | -30760 | -30740 | -30740 | -31260 | -31540 | .39880 | .46830 |
| 1.294 | 4.397 | -30860 | -31010 | -30990 | -31100 | -31340 | -31340 | -32070 | -31780 | .38830 | .49000 |
| 1.294 | 6.488 | -31040 | -30890 | -31120 | -31300 | -31440 | -31440 | -32370 | -31870 | .36060 | .54200 |
| 1.294 | GRADIENT | -.00062 | -.00072 | -.00066 | -.00110 | .00033 | .00033 | -.00011 | .00013 | -.01584 | .01559 |

RUN NO. 0/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 1.406 | -6.157 | -30380 | -30330 | -30080 | -30140 | -31080 | -31080 | -32170 | -32450 | .58950 | .36530 |
| 1.407 | -1.973 | -31180 | -30610 | -30680 | -30750 | -31060 | -31060 | -31520 | -32140 | .50740 | .44010 |
| 1.406 | -.914 | -31020 | -30600 | -30570 | -30540 | -31240 | -31240 | -32080 | -32190 | .49470 | .44980 |
| 1.405 | -.019 | -30920 | -30750 | -30590 | -30490 | -31290 | -31290 | -32620 | -32300 | .48750 | .46070 |
| 1.403 | .559 | -30900 | -30700 | -30770 | -30690 | -31680 | -31680 | -32480 | -32420 | .48930 | .46640 |
| 1.403 | 1.100 | -30800 | -30720 | -30810 | -30600 | -31500 | -31500 | -32780 | -32820 | .48020 | .46880 |
| 1.403 | 2.190 | -30650 | -30830 | -30770 | -30770 | -31590 | -31590 | -32890 | -32890 | .45530 | .47960 |
| 1.404 | 3.275 | -30790 | -30560 | -30810 | -30730 | -31860 | -31860 | -32910 | -33030 | .42110 | .49950 |
| 1.403 | 4.345 | -30860 | -30670 | -30650 | -30590 | -31570 | -31570 | -32310 | -32740 | .40110 | .52150 |
| 1.402 | 6.469 | -30430 | -30200 | -30250 | -30240 | -31010 | -31010 | -31640 | -32310 | .36950 | .56370 |
| 1.399 | GRADIENT | -.00056 | -.00005 | -.00018 | -.00006 | -.00099 | -.00099 | -.00109 | -.00139 | -.01719 | .01231 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1738

ANES 118-1-11 0A145A 01

(E2F044) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA =
AILRON =
SPOBRK =
RN/L =
10.000
.000
25.000
5.000
ELEVON =
BDFLAP =
RUDDER =
-5.000
.000
.000

RUN NO. 782/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .597 | -6.029 | -.26040 | .34300 | -.01670 |
| .595 | -1.970 | -.26110 | .23720 | .09410 |
| .596 | -.955 | -.26440 | .21230 | .12870 |
| .596 | .069 | -.26750 | .17770 | .14810 |
| .596 | .560 | -.26350 | .16650 | .16710 |
| .597 | 1.059 | -.26250 | .14980 | .18110 |
| .595 | 2.087 | -.26310 | .12970 | .21130 |
| .596 | 3.108 | -.26280 | .09650 | .24140 |
| .593 | 4.148 | -.27880 | .06080 | .25890 |
| .596 | 6.211 | -.26810 | .00380 | .32570 |
| | GRADIENT | -.00230 | -.02838 | .02745 |

RUN NO. 781/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .798 | -6.085 | -.30540 | .39240 | .01250 |
| .799 | -2.008 | -.30930 | .28120 | .13020 |
| .799 | -.981 | -.30550 | .25440 | .16330 |
| .798 | .057 | -.30980 | .22520 | .19180 |
| .798 | .558 | -.30980 | .21070 | .20880 |
| .799 | 1.062 | -.31400 | .19450 | .22080 |
| .798 | 2.110 | -.31260 | .17420 | .25400 |
| .797 | 3.142 | -.32720 | .13820 | .27770 |
| .798 | 4.193 | -.32790 | .11470 | .30960 |
| .798 | 6.273 | -.31690 | .05650 | .37660 |
| | GRADIENT | -.00359 | -.02707 | .02865 |

RUN NO. 774/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .898 | -6.112 | -.32690 | .43590 | .05730 |
| .901 | -2.023 | -.34220 | .32810 | .17390 |
| .900 | -.988 | -.34350 | .29950 | .20410 |
| .899 | .056 | -.34720 | .27190 | .23500 |
| .900 | .557 | -.35620 | .25740 | .24720 |
| .900 | 1.069 | -.35660 | .24180 | .26180 |
| .898 | 2.113 | -.35350 | .21650 | .29320 |
| .898 | 3.158 | -.36610 | .18260 | .31890 |
| .898 | 4.219 | -.35730 | .16340 | .35280 |
| .896 | 6.299 | -.36270 | .10370 | .41080 |
| | GRADIENT | -.00324 | -.02693 | .02837 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1739

AMES 118-1-11 OAI45A 01

(E2F044) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA =
 AILRON =
 SPOBRK =
 RN/L =
 10.000 ELEVON = -5.000
 .000 BDFLAP = .000
 25.000 RUDDER = .000
 5.000

RUN NO. 773/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00
 MACH BETA CP240 CP12 CP13
 .950 -6.125 -.34930 .46680 .09010
 .951 -2.033 -.36800 .35780 .20460
 .951 -.996 -.36770 .33130 .23690
 .951 .051 -.37380 .30390 .26680
 .950 .556 -.37480 .28880 .27930
 .951 1.067 -.36730 .27790 .29820
 .950 2.120 -.37700 .24950 .32420
 .949 3.166 -.37220 .22110 .35210
 .949 4.229 -.37370 .19390 .38200
 .949 6.316 -.36960 .14170 .44270
 GRADIENT -.00095 -.02625 .02811

RUN NO. 769/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00
 MACH BETA CP240 CP12 CP13
 1.201 -6.130 -.32820 .58450 .26630
 1.203 -2.038 -.32470 .48290 .31690
 1.199 -1.003 -.32940 .45610 .34170
 1.198 .046 -.33530 .43130 .37150
 1.201 .552 -.33290 .42100 .38820
 1.200 1.071 -.32540 .40970 .40510
 1.196 2.128 -.32550 .38110 .42990
 1.199 3.172 -.32520 .36210 .46040
 1.198 4.233 -.32130 .34500 .49190
 1.195 6.323 -.32420 .30940 .54630
 GRADIENT .00106 -.02228 .02805

RUN NO. 762/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00
 MACH BETA CP240 CP12 CP13
 1.294 -6.140 -.33800 .58900 .32360
 1.300 -2.046 -.33780 .49470 .36560
 1.300 -1.003 -.33230 .47580 .37710
 1.298 .052 -.33610 .45450 .39240
 1.298 .561 -.33450 .44320 .39990
 1.298 1.074 -.33340 .43460 .41040
 1.296 2.132 -.33420 .41350 .43200
 1.296 3.192 -.33470 .39910 .45880
 1.295 4.244 -.33210 .39180 .48500
 1.293 6.334 -.31550 .36950 .54330
 GRADIENT .00048 -.01709 .01925

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(E2F044) (06 MAR 80)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = -5.000
 AILPON = .000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 761/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|--------|---------|--------|
| 1.404 | -6.152 | -31060 | .60890 | .36050 |
| 1.409 | -2.045 | -31050 | .51800 | .43260 |
| 1.409 | -1.005 | -31060 | .49830 | .44900 |
| 1.409 | .049 | -31220 | .48990 | .46560 |
| 1.409 | .556 | -31100 | .48530 | .46970 |
| 1.407 | 1.072 | -30970 | .48050 | .47230 |
| 1.406 | 2.139 | -30930 | .46620 | .47610 |
| 1.404 | 3.183 | -31100 | .45110 | .48960 |
| 1.404 | 4.256 | -31070 | .43140 | .50900 |
| 1.402 | 6.356 | -30140 | .38210 | .56350 |
| | GRADIENT | .00006 | -.01290 | .01085 |

AMES 118-1-11 OAI45A 01

(E2F045) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = 5.000
 AILPON = .000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 783/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .597 | -6.057 | -.27370 | .34870 | -.01110 |
| .597 | -1.995 | -.28350 | .23940 | .09390 |
| .596 | -.974 | -.29130 | .21070 | .12500 |
| .596 | .057 | -.29430 | .17660 | .14580 |
| .596 | .555 | -.28140 | .17000 | .17180 |
| .595 | 1.059 | -.28810 | .15220 | .18160 |
| .596 | 2.094 | -.28550 | .12500 | .21400 |
| .597 | 3.121 | -.29180 | .09780 | .24210 |
| .595 | 4.164 | -.30200 | .06930 | .26660 |
| .597 | 6.229 | -.30740 | .01170 | .32920 |
| | GRADIENT | -.00247 | -.02748 | .02850 |

0A145 TABULATED FORCE DATA
AMES 118-1-11 0A145A 01

REFERENCE DATA
SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA
ALPHA = 10.000 ELEVON = 5.000
AILRON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

| RUN NO. | 780/ 0 | MACH | BETA | CP240 | CP12 | CP13 | GRADIENT INTERVAL | -5.00/ | 5.00 |
|---------|--------|------|----------|---------|---------|--------|-------------------|--------|------|
| | | | | | | | | | |
| | | .798 | -6.102 | -31410 | .39210 | .01490 | | | |
| | | .797 | -2.024 | -31170 | .28150 | .13070 | | | |
| | | .799 | -.992 | -30780 | .25680 | .16410 | | | |
| | | .797 | .050 | -30840 | .22590 | .19530 | | | |
| | | .800 | .553 | -31280 | .21320 | .21040 | | | |
| | | .797 | 1.067 | -31590 | .19940 | .22510 | | | |
| | | .799 | 2.111 | -31820 | .17230 | .25640 | | | |
| | | .798 | 3.155 | -32900 | .13900 | .28090 | | | |
| | | .798 | 4.209 | -32850 | .11170 | .31350 | | | |
| | | .798 | 6.289 | -33800 | .05410 | .37180 | | | |
| | | | GRADIENT | -.00357 | -.02749 | .02898 | | | |

| RUN NO. | 775/ 0 | MACH | BETA | CP240 | CP12 | CP13 | GRADIENT INTERVAL | -5.00/ | 5.00 |
|---------|--------|------|----------|--------|---------|--------|-------------------|--------|------|
| | | | | | | | | | |
| | | .901 | -6.132 | -34820 | .43720 | .05770 | | | |
| | | .902 | -2.031 | -35610 | .32670 | .17180 | | | |
| | | .900 | -.995 | -34800 | .30130 | .20610 | | | |
| | | .899 | .050 | -34430 | .27480 | .23720 | | | |
| | | .900 | .557 | -35220 | .25820 | .24950 | | | |
| | | .901 | 1.071 | -34100 | .24980 | .26960 | | | |
| | | .898 | 2.120 | -34130 | .21600 | .29790 | | | |
| | | .898 | 3.168 | -34960 | .18920 | .32350 | | | |
| | | .899 | 4.230 | -35110 | .16430 | .35230 | | | |
| | | .897 | 6.312 | -35900 | .10590 | .41490 | | | |
| | | | GRADIENT | .00057 | -.02637 | .02869 | | | |

| RUN NO. | 772/ 0 | MACH | BETA | CP240 | CP12 | CP13 | GRADIENT INTERVAL | -5.00/ | 5.00 |
|---------|--------|------|----------|--------|---------|--------|-------------------|--------|------|
| | | | | | | | | | |
| | | .950 | -6.133 | -37050 | .46420 | .08830 | | | |
| | | .951 | -2.044 | -36800 | .35850 | .20460 | | | |
| | | .952 | -1.005 | -36660 | .33260 | .23700 | | | |
| | | .949 | .046 | -37390 | .30270 | .26470 | | | |
| | | .950 | .554 | -37720 | .28990 | .28070 | | | |
| | | .951 | 1.070 | -38170 | .27730 | .29340 | | | |
| | | .950 | 2.123 | -37340 | .25010 | .32430 | | | |
| | | .949 | 3.174 | -37030 | .22240 | .35240 | | | |
| | | .951 | 4.237 | -36590 | .19890 | .38420 | | | |
| | | .949 | 6.323 | -36840 | .14260 | .44210 | | | |
| | | | GRADIENT | .00008 | -.02566 | .02830 | | | |

(E2F045) (05 MAR 80)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8100 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = 5.000
 AILRON = .000 BOFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 768/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|--------|---------|--------|
| 1.198 | -6.137 | -33620 | 58580 | 26340 |
| 1.200 | -2.045 | -33290 | 48230 | 31770 |
| 1.199 | -1.008 | -33230 | 45700 | 34270 |
| 1.201 | .042 | -32490 | 43360 | 37370 |
| 1.199 | .549 | -32750 | 41970 | 38660 |
| 1.200 | 1.063 | -32360 | 40880 | 40260 |
| 1.200 | 2.122 | -32070 | 38540 | 43200 |
| 1.197 | 3.173 | -32580 | 35890 | 45720 |
| 1.197 | 4.239 | -32460 | 34280 | 49000 |
| 1.195 | 6.329 | -32430 | 31070 | 54910 |
| | GRADIENT | .00144 | -.02259 | .02747 |

RUN NO. 763/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|--------|---------|--------|
| 1.293 | -6.163 | -33540 | 58730 | 32180 |
| 1.299 | -2.015 | -33300 | 49470 | 36470 |
| 1.298 | -.939 | -33360 | 47430 | 37520 |
| 1.298 | .152 | -33400 | 45430 | 39350 |
| 1.298 | .684 | -33340 | 44380 | 40220 |
| 1.297 | 1.229 | -33370 | 43220 | 41100 |
| 1.299 | 2.297 | -32740 | 41320 | 43610 |
| 1.297 | 3.358 | -32350 | 40050 | 46290 |
| 1.296 | 4.408 | -32960 | 39120 | 48750 |
| 1.292 | 6.456 | -31600 | 36750 | 54500 |
| | GRADIENT | .00126 | -.01661 | .01961 |

RUN NO. 760/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|--------|---------|--------|
| 1.398 | -6.152 | -30990 | 61100 | 36330 |
| 1.405 | -2.052 | -31320 | 51870 | 43100 |
| 1.406 | -1.011 | -31260 | 50120 | 44780 |
| 1.406 | .046 | -31310 | 48910 | 46450 |
| 1.406 | .555 | -31200 | 48470 | 46840 |
| 1.406 | 1.073 | -31000 | 47910 | 47100 |
| 1.406 | 2.132 | -30730 | 46890 | 47680 |
| 1.404 | 3.189 | -30850 | 45200 | 48930 |
| 1.405 | 4.248 | -30660 | 43470 | 51310 |
| 1.404 | 6.354 | -29930 | 38280 | 56160 |
| | GRADIENT | .00117 | -.01262 | .01157 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(E2F046) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 264/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .598 | -5.793 | -.21370 | -.03640 | -.03880 |
| .600 | -.898 | -.21370 | .09490 | .08440 |
| .599 | 1.705 | -.21900 | .14420 | .13220 |
| .598 | 4.213 | -.24000 | .17610 | .15720 |
| .597 | 6.232 | -.25220 | .19490 | .17770 |
| .598 | 7.275 | -.24710 | .20580 | .19170 |
| .597 | 9.309 | -.26110 | .21000 | .18830 |
| .597 | 11.363 | -.27710 | .21760 | .18770 |
| .597 | 14.457 | -.31750 | .19980 | .17140 |
| | GRADIENT | -.00513 | .01591 | .01427 |

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = 3.000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 250/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|--------|---------|
| .802 | -5.827 | -.19970 | .00330 | -.00020 |
| .801 | -.827 | -.20610 | .12440 | .10480 |
| .800 | 1.693 | -.20680 | .15410 | .13950 |
| .799 | 4.212 | -.21020 | .18670 | .16860 |
| .800 | 6.262 | -.19270 | .21400 | .18690 |
| .798 | 7.289 | -.19870 | .21990 | .19320 |
| .799 | 9.315 | -.21730 | .22950 | .19940 |
| .800 | 11.385 | -.22260 | .23880 | .20280 |
| .799 | 14.449 | -.27820 | .22790 | .19330 |
| | GRADIENT | -.00081 | .01237 | .01266 |

RUN NO. 197/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|--------|--------|
| .902 | -4.826 | -.28980 | .09020 | .09310 |
| .901 | .374 | -.30050 | .18270 | .17330 |
| .900 | 2.924 | -.30050 | .21720 | .20120 |
| .899 | 5.484 | -.32300 | .24210 | .22190 |
| .900 | 7.520 | -.33180 | .26830 | .23890 |
| .901 | 8.526 | -.35170 | .26890 | .23970 |
| .896 | 10.558 | -.35620 | .27320 | .24590 |
| .898 | 12.646 | -.37340 | .27510 | .24660 |
| .901 | 15.735 | -.42050 | .26530 | .24100 |
| | GRADIENT | -.00148 | .01659 | .01416 |

AMES 118-1-11 OAI45A 01

(E2F046) (05 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = 3.000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 194/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|--------|--------|
| .955 | -4.735 | -.37760 | .14530 | .14970 |
| .954 | .477 | -.36850 | .22950 | .21530 |
| .954 | 3.079 | -.37250 | .25900 | .23870 |
| .953 | 5.609 | -.33870 | .28340 | .25690 |
| .954 | 7.628 | -.34910 | .30410 | .27070 |
| .956 | 8.699 | -.35220 | .31170 | .27840 |
| .950 | 10.739 | -.36460 | .31020 | .27750 |
| .950 | 12.781 | -.39430 | .30880 | .27650 |
| .953 | 15.825 | -.43060 | .29900 | .27250 |
| | GRADIENT | .00026 | .01478 | .01156 |

RUN NO. 431/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|-------|----------|---------|--------|--------|
| 1.100 | -5.065 | -.33930 | .29220 | .28960 |
| 1.101 | -.081 | -.33520 | .35320 | .32760 |
| 1.098 | 2.535 | -.33700 | .37870 | .34420 |
| 1.096 | 5.135 | -.35620 | .39640 | .35890 |
| 1.099 | 7.232 | -.35570 | .40800 | .36510 |
| 1.098 | 8.215 | -.36020 | .41070 | .36850 |
| 1.093 | 10.263 | -.37800 | .41630 | .37010 |
| 1.100 | 12.320 | -.38170 | .41740 | .37110 |
| 1.099 | 15.373 | -.40560 | .41060 | .36510 |
| | GRADIENT | -.00069 | .00975 | .00635 |

RUN NO. 229/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|-------|----------|---------|--------|--------|
| 1.199 | -5.802 | -.30240 | .33090 | .34740 |
| 1.202 | -.803 | -.29370 | .38400 | .36370 |
| 1.198 | 1.758 | -.30330 | .40300 | .36500 |
| 1.199 | 4.330 | -.31030 | .41630 | .36930 |
| 1.196 | 6.327 | -.31460 | .42950 | .37070 |
| 1.198 | 7.347 | -.31400 | .43240 | .37370 |
| 1.200 | 9.451 | -.32000 | .44090 | .37970 |
| 1.198 | 11.487 | -.31770 | .44870 | .38260 |
| 1.193 | 14.655 | -.31830 | .44630 | .38050 |
| | GRADIENT | -.00323 | .00629 | .00109 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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(E2F046) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = 3.000 BDFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 220/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|-------|----------|---------|--------|---------|
| 1.297 | -5.057 | -.28820 | .38380 | .38620 |
| 1.295 | .167 | -.29400 | .41500 | .40000 |
| 1.295 | 2.721 | -.30040 | .43650 | .39700 |
| 1.294 | 5.260 | -.31430 | .45000 | .39480 |
| 1.295 | 7.305 | -.32680 | .46130 | .39370 |
| 1.297 | 8.339 | -.32990 | .46140 | .39660 |
| 1.294 | 10.382 | -.33590 | .47230 | .39760 |
| 1.292 | 12.454 | -.34800 | .47270 | .39900 |
| 1.294 | 15.557 | -.33900 | .47800 | .41130 |
| | GRADIENT | -.00251 | .00803 | -.00117 |

RUN NO. 211/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|-------|----------|---------|--------|--------|
| 1.401 | -5.109 | -.28640 | .42160 | .42240 |
| 1.404 | .146 | -.30220 | .42510 | .45230 |
| 1.402 | 2.691 | -.30750 | .47840 | .47260 |
| 1.400 | 5.222 | -.31460 | .49340 | .48090 |
| 1.400 | 7.277 | -.31740 | .50020 | .48360 |
| 1.400 | 8.339 | -.31980 | .50170 | .47810 |
| 1.398 | 10.390 | -.31540 | .51430 | .47400 |
| 1.399 | 12.461 | -.31870 | .51660 | .47270 |
| 1.397 | 15.528 | -.31210 | .51760 | .47270 |
| | GRADIENT | -.00208 | .02095 | .00798 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(E2F047) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = 5.000 BOFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 0/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .599 | -5.804 | -.21650 | -.03720 | -.04230 |
| .601 | -.849 | -.21990 | .10560 | .08890 |
| .599 | 1.678 | -.23270 | .13960 | .13090 |
| .598 | 4.181 | -.25210 | .17390 | .16100 |
| .597 | 6.206 | -.26850 | .19600 | .17980 |
| .598 | 7.246 | -.27490 | .19880 | .18500 |
| .597 | 9.316 | -.27690 | .20850 | .19100 |
| .598 | 11.399 | -.29330 | .21630 | .19050 |
| | GRADIENT | -.00640 | .01358 | .01434 |

RUN NO. 0/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|--------|---------|
| .801 | -5.822 | -.23420 | .00020 | -.00460 |
| .800 | -.827 | -.22600 | .12740 | .10670 |
| .800 | 1.696 | -.25180 | .15520 | .13750 |
| .800 | 4.227 | -.25960 | .18940 | .16540 |
| .797 | 6.266 | -.28220 | .20840 | .18290 |
| .800 | 7.281 | -.28220 | .21830 | .19310 |
| .799 | 9.340 | -.29800 | .22530 | .19910 |
| .797 | 11.392 | -.30630 | .23700 | .20360 |
| .799 | 14.460 | -.36220 | .22530 | .19320 |
| | GRADIENT | -.00665 | .01227 | .01161 |

RUN NO. 0/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|--------|--------|
| .901 | -4.753 | -.23660 | .09210 | .09300 |
| .902 | .488 | -.29470 | .18910 | .17550 |
| .901 | 3.012 | -.32320 | .21860 | .20170 |
| .898 | 5.525 | -.33130 | .24140 | .22090 |
| .901 | 7.564 | -.32740 | .26930 | .24170 |
| .898 | 8.599 | -.33110 | .27350 | .24420 |
| .901 | 10.646 | -.33180 | .27580 | .25010 |
| .900 | 12.718 | -.35550 | .27710 | .24880 |
| .900 | 15.793 | -.39630 | .26620 | .24230 |
| | GRADIENT | -.00285 | .01663 | .01426 |

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 1076.6800 IN. XO

LREF = 474.8100 INCHES YMRP = .0000 IN. YO

BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO

SCALE = .0500

BETA = .000 ELEVON = .000

AILRON = 5.000 BDFLAP = .000

SPDBRK = 25.000 RUDDER = .000

RN/L = 5.000

PARAMETRIC DATA

| RUN NO. | 0/ 0 | MACH | ALPHA | CP240 | CP12 | CP13 | GRADIENT INTERVAL | -5.00/ | 5.00 |
|---------|------|-------|----------|---------|--------|--------|-------------------|--------|------|
| | | | | | | | | | |
| | | 1.202 | -5.874 | -3.0010 | .33210 | .34870 | | | |
| | | 1.202 | -.829 | -.29380 | .38480 | .36460 | | | |
| | | 1.198 | 1.730 | -.30150 | .40390 | .36600 | | | |
| | | 1.199 | 4.288 | -.30660 | .41760 | .37140 | | | |
| | | 1.193 | 6.304 | -.31550 | .42890 | .37000 | | | |
| | | 1.198 | 7.325 | -.31210 | .43440 | .37580 | | | |
| | | 1.200 | 9.397 | -.31650 | .44130 | .38270 | | | |
| | | 1.200 | 11.452 | -.30780 | .44950 | .38470 | | | |
| | | 1.198 | 14.608 | -.31790 | .44760 | .38240 | | | |
| | | | GRADIENT | -.00250 | .00641 | .00133 | | | |

| RUN NO. | 0/ 0 | MACH | ALPHA | CP240 | CP12 | CP13 | GRADIENT INTERVAL | -5.00/ | 5.00 |
|---------|------|-------|----------|---------|--------|---------|-------------------|--------|------|
| | | | | | | | | | |
| | | 1.296 | -5.885 | -.28920 | .37850 | .39020 | | | |
| | | 1.297 | -.827 | -.28600 | .41790 | .40520 | | | |
| | | 1.296 | 1.701 | -.29630 | .43360 | .39810 | | | |
| | | 1.295 | 4.253 | -.30710 | .44310 | .39500 | | | |
| | | 1.298 | 6.279 | -.31930 | .46370 | .39620 | | | |
| | | 1.296 | 7.304 | -.32090 | .46270 | .39610 | | | |
| | | 1.295 | 9.359 | -.32660 | .46570 | .39850 | | | |
| | | 1.296 | 11.479 | -.33380 | .47390 | .40040 | | | |
| | | 1.295 | 14.576 | -.32770 | .47730 | .41130 | | | |
| | | | GRADIENT | -.00415 | .00496 | -.00201 | | | |

| RUN NO. | 0/ 0 | MACH | ALPHA | CP240 | CP12 | CP13 | GRADIENT INTERVAL | -5.00/ | 5.00 |
|---------|------|-------|----------|---------|--------|--------|-------------------|--------|------|
| | | | | | | | | | |
| | | 1.404 | -5.157 | -.28350 | .41170 | .42150 | | | |
| | | 1.404 | -.003 | -.30310 | .42140 | .46210 | | | |
| | | 1.400 | 2.564 | -.30950 | .47580 | .46890 | | | |
| | | 1.398 | 5.138 | -.31620 | .48880 | .46840 | | | |
| | | 1.401 | 7.268 | -.31580 | .50190 | .46430 | | | |
| | | 1.401 | 8.304 | -.30910 | .50350 | .46630 | | | |
| | | 1.398 | 10.351 | -.30930 | .51470 | .46660 | | | |
| | | 1.399 | 12.465 | -.30790 | .51570 | .46490 | | | |
| | | | GRADIENT | -.00249 | .02118 | .00187 | | | |

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OAI45 TABULATED FORCE DATA

AMES 118-1-11 OAI45A 01(-TO+)

(E2F048) (06 MAR 80)

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELEVON = .000 BDFLAP = .000
SPOBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 258/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .599 | -4.829 | -.22010 | .17690 | .15770 |
| .599 | -3.969 | -.23630 | .17780 | .15920 |
| .599 | -2.938 | -.22930 | .17900 | .16070 |
| .599 | -1.944 | -.22730 | .17890 | .15970 |
| .599 | -.999 | -.22500 | .17800 | .16150 |
| .599 | -.015 | -.22720 | .17590 | .15790 |
| .598 | .970 | -.22540 | .17530 | .16090 |
| .600 | 1.980 | -.22880 | .17600 | .16170 |
| .599 | 2.938 | -.23320 | .17670 | .16200 |
| .599 | 3.944 | -.24210 | .17660 | .16160 |
| .599 | 4.915 | -.25020 | .17510 | .16430 |
| | GRADIENT | -.00175 | -.00027 | .00046 |

RUN NO. 257/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .800 | -4.822 | -.25060 | .18910 | .16360 |
| .801 | -3.977 | -.24970 | .19190 | .16760 |
| .801 | -2.948 | -.24560 | .19170 | .16750 |
| .800 | -1.951 | -.24680 | .18990 | .16440 |
| .800 | -.993 | -.24110 | .19170 | .16830 |
| .801 | -.006 | -.24040 | .19090 | .16640 |
| .801 | .972 | -.23270 | .19380 | .17040 |
| .801 | 1.980 | -.23570 | .18900 | .16920 |
| .801 | 2.934 | -.24240 | .18660 | .16700 |
| .800 | 3.952 | -.24340 | .19120 | .16950 |
| .800 | 4.928 | -.26110 | .18510 | .16550 |
| | GRADIENT | .00057 | -.00035 | .00025 |

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OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01(-TO+)

(E2F048) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 BDFLAP = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPD BRK = 25.000 RUDDER = .000
SCALE = .0500 RN/L =

PARAMETRIC DATA

RUN NO. 204/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | CP240 | CP12 | CP13 |
|------|----------|--------|---------|--------|
| .903 | -4.927 | -32000 | .24660 | .22340 |
| .901 | -4.053 | -33220 | .24480 | .22090 |
| .902 | -3.017 | -33980 | .24560 | .21960 |
| .903 | -2.008 | -32660 | .24710 | .22370 |
| .901 | -1.036 | -33080 | .24350 | .22160 |
| .903 | -.027 | -32190 | .24840 | .22590 |
| .903 | .983 | -32600 | .24680 | .22390 |
| .903 | 1.994 | -32590 | .24460 | .22400 |
| .902 | 2.981 | -31620 | .24360 | .22650 |
| .903 | 3.994 | -33330 | .24430 | .22310 |
| .902 | 5.009 | -33190 | .24420 | .22490 |
| | GRADIENT | .00045 | -.00018 | .00039 |

RUN NO. 195/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | CP240 | CP12 | CP13 |
|------|----------|--------|---------|---------|
| .955 | -4.945 | -34740 | .28170 | .25590 |
| .955 | -4.058 | -34840 | .28370 | .25800 |
| .955 | -3.005 | -34840 | .28320 | .25890 |
| .955 | -1.999 | -34660 | .28530 | .25930 |
| .955 | -1.034 | -35290 | .28460 | .25810 |
| .954 | -.035 | -34860 | .28130 | .25780 |
| .954 | .968 | -34410 | .28200 | .25700 |
| .952 | 1.996 | -34080 | .28000 | .25560 |
| .953 | 2.975 | -34520 | .28000 | .25630 |
| .954 | 3.994 | -33520 | .28250 | .25970 |
| .952 | 5.007 | -34170 | .27900 | .25690 |
| | GRADIENT | .00111 | -.00029 | -.00002 |

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OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01(-TO+)

(E2F048) (05 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELEVON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 439/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|--------|
| 1.101 | -4.858 | -.34200 | .39890 | .35610 |
| 1.101 | -4.041 | -.34160 | .39890 | .35810 |
| 1.101 | -3.002 | -.34500 | .39950 | .35690 |
| 1.101 | -1.992 | -.34940 | .39940 | .35580 |
| 1.101 | -1.007 | -.35190 | .40030 | .35630 |
| 1.101 | -.001 | -.35180 | .39670 | .35580 |
| 1.101 | .997 | -.35190 | .39800 | .35690 |
| 1.101 | 1.994 | -.35750 | .39720 | .35570 |
| 1.101 | 2.970 | -.35420 | .39710 | .36100 |
| 1.101 | 3.957 | -.35680 | .39490 | .35820 |
| 1.101 | 4.937 | -.35520 | .39490 | .36010 |
| | GRADIENT | -.00157 | -.00046 | .00030 |

RUN NO. 237/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|--------|
| 1.200 | -4.820 | -.30720 | .41970 | .36920 |
| 1.201 | -3.972 | -.30260 | .42060 | .37020 |
| 1.202 | -2.938 | -.30270 | .42170 | .37150 |
| 1.201 | -1.954 | -.30470 | .41990 | .37030 |
| 1.200 | -.993 | -.30640 | .42040 | .37030 |
| 1.201 | -.003 | -.30820 | .41980 | .37010 |
| 1.201 | .967 | -.30970 | .42020 | .37000 |
| 1.200 | 1.980 | -.30730 | .41850 | .37050 |
| 1.201 | 2.944 | -.30480 | .41960 | .37210 |
| 1.201 | 3.946 | -.30640 | .41940 | .37100 |
| 1.201 | 4.921 | -.30600 | .41960 | .37050 |
| | GRADIENT | -.00022 | -.00014 | .00011 |

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OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01(-TO+)

(E2F048) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 BDFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPOBRK = 25.000 RUDDER = .000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 227/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|---------|
| 1.298 | -4.830 | -31120 | .44620 | .39600 |
| 1.298 | -3.979 | -30620 | .44640 | .39550 |
| 1.297 | -2.948 | -30730 | .44680 | .39500 |
| 1.297 | -1.961 | -30820 | .44540 | .39470 |
| 1.297 | -.993 | -30980 | .44580 | .39420 |
| 1.297 | .004 | -31050 | .44430 | .39370 |
| 1.296 | .957 | -30680 | .44610 | .39660 |
| 1.296 | 1.977 | -31210 | .44520 | .39450 |
| 1.296 | 2.938 | -31380 | .44300 | .39410 |
| 1.296 | 3.951 | -31330 | .44370 | .39430 |
| 1.296 | 4.921 | -31150 | .44330 | .39450 |
| | GRADIENT | -.00051 | -.00034 | -.00012 |

RUN NO. 218/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | CP240 | CP12 | CP13 |
|-------|----------|---------|--------|--------|
| 1.404 | -4.835 | -31670 | .48840 | .46160 |
| 1.404 | -3.968 | -31060 | .49160 | .46150 |
| 1.403 | -2.948 | -30800 | .49380 | .46200 |
| 1.403 | -1.963 | -30870 | .49260 | .46180 |
| 1.403 | -.996 | -30990 | .49100 | .46110 |
| 1.404 | -.008 | -30940 | .49210 | .46240 |
| 1.403 | .972 | -30840 | .49110 | .46250 |
| 1.403 | 1.982 | -30940 | .49270 | .46240 |
| 1.403 | 2.935 | -31040 | .49230 | .46300 |
| 1.404 | 3.959 | -31300 | .49390 | .46360 |
| 1.404 | 4.909 | -31840 | .49120 | .46130 |
| | GRADIENT | -.00024 | .00017 | .00012 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01(+TO-)

(E2F049) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 259/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .599 | -4.820 | -.23790 | .17420 | .15800 |
| .598 | -3.967 | -.23970 | .17560 | .15700 |
| .599 | -2.941 | -.23490 | .17540 | .15800 |
| .599 | -1.947 | -.23220 | .17480 | .15860 |
| .599 | -.996 | -.22630 | .17390 | .16010 |
| .600 | -.004 | -.22500 | .17540 | .15950 |
| .598 | .965 | -.22660 | .17480 | .16100 |
| .599 | 1.985 | -.22550 | .17670 | .16150 |
| .599 | 2.933 | -.23460 | .17380 | .16120 |
| .599 | 3.949 | -.24350 | .17170 | .15880 |
| .599 | 4.915 | -.25090 | .17650 | .16270 |
| | GRADIENT | -.00062 | -.00004 | .00044 |

RUN NO. 205/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .902 | -4.930 | -.32020 | .24610 | .22310 |
| .902 | -4.050 | -.33110 | .24540 | .22190 |
| .903 | -3.007 | -.33790 | .24440 | .22140 |
| .902 | -1.998 | -.33160 | .24350 | .22230 |
| .902 | -1.039 | -.32860 | .24660 | .22300 |
| .902 | -.006 | -.32010 | .24610 | .22600 |
| .903 | .973 | -.31570 | .24820 | .22830 |
| .904 | 1.993 | -.31630 | .24700 | .22780 |
| .902 | 2.973 | -.32580 | .24320 | .22310 |
| .901 | 3.996 | -.33580 | .23980 | .22140 |
| .901 | 5.006 | -.33740 | .24080 | .21950 |
| | GRADIENT | .00081 | -.00028 | .00028 |

(E2F049) (06 MAR 80)

OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01(+TO-)

DATE 10 MAR 80

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 BDFLAP = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPOBRK = 25.000 RUDDER = .000
SCALE = .0500 RN/L = 5.000

RUN NO. 238/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | CP240 | CP12 | CP13 |
|-------|----------|--------|--------|--------|
| 1.202 | -4.820 | -30250 | .42160 | .37140 |
| 1.202 | -3.969 | -30200 | .42160 | .37150 |
| 1.201 | -2.931 | -30400 | .42000 | .37050 |
| 1.202 | -1.954 | -30220 | .42170 | .37150 |
| 1.201 | -1.004 | -30400 | .41970 | .37060 |
| 1.200 | -.000 | -30780 | .41920 | .37030 |
| 1.202 | .960 | -30620 | .42100 | .37190 |
| 1.201 | 1.992 | -30740 | .42000 | .37080 |
| 1.200 | 2.946 | -30960 | .41770 | .36950 |
| 1.204 | 3.952 | -30430 | .41920 | .37280 |
| 1.200 | 4.923 | -30770 | .41880 | .37070 |
| | GRADIENT | -30060 | -30030 | -30001 |

.AMES 118-1-11 OAI45A 01

(E2F050) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = 10.000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 BDFLAP = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPOBRK = 25.000 RUDDER = .000
SCALE = .0500 RN/L = 5.000

RUN NO. 265/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .598 | -5.765 | -28780 | -.03550 | -.04180 |
| .598 | -.875 | -30670 | .10020 | .08820 |
| .597 | 1.656 | -31960 | .13990 | .12870 |
| .598 | 4.230 | -32970 | .17890 | .16210 |
| .597 | 6.252 | -33900 | .19660 | .17970 |
| .599 | 7.297 | -34470 | .20120 | .18980 |
| .598 | 9.347 | -36830 | .22360 | .19590 |
| .598 | 11.401 | -39540 | .22000 | .19160 |
| .597 | 14.446 | -40210 | .20180 | .16780 |
| | GRADIENT | -300450 | .01542 | .01447 |

(E2F050) (06 MAR 80)

JAMES 118-1-11 0A145A 01

PARAMETRIC DATA

| | | | | | |
|---------|---|--------|--------|---|--------|
| BETA | = | .000 | ELEVON | = | 10.000 |
| AILIRON | = | 3.000 | BOFLAP | = | .000 |
| SPOBRK | = | 25.000 | RUDDER | = | .000 |
| RN/L | = | 5.000 | | | |

REFERENCE DATA

| | | | | | |
|---|-----------|--------|---|-----------|--------|
| = | 2690.0000 | SQ.FT. | = | 1076.6800 | IN. X0 |
| = | 474.8100 | INCHES | = | .0000 | IN. Y0 |
| = | 936.6800 | INCHES | = | 375.0000 | IN. Z0 |
| = | .0500 | SCALE | | | |

| RUN NO. | 251/ 0 | RN/L | 5.02 | GRADIENT | INTERVAL | -5.00/ 5.00 |
|---------|--------|----------|---------|----------|----------|-------------|
| | MACH | ALPHA | CP240 | CP12 | CP13 | |
| | .800 | -5.564 | -.23130 | .00460 | .00090 | |
| | .800 | -.796 | -.24400 | .12380 | .10190 | |
| | .800 | 1.724 | -.22730 | .15800 | .14010 | |
| | .797 | 4.225 | -.23110 | .19150 | .16780 | |
| | .798 | 6.299 | -.28190 | .21440 | .18670 | |
| | .800 | 7.302 | -.32070 | .22060 | .19210 | |
| | .798 | 9.357 | -.32250 | .22920 | .20220 | |
| | .799 | 11.417 | -.29150 | .24200 | .20590 | |
| | .798 | 14.482 | -.30470 | .23300 | .19730 | |
| | | GRADIENT | .00257 | .23300 | .19730 | |
| | | | | | .01313 | |

| RUN NO. | 198/ 0 | RN/L | = | 4.97 | GRADIENT INTERVAL | = | -5.00/ | 5.00 |
|---------|--------|----------|---|------|-------------------|---|--------|--------|
| MACH | | ALPHA | | | CP240 | | CP12 | CP13 |
| .902 | | -4.645 | | | -.28010 | | .09520 | .09800 |
| .901 | | .495 | | | -.31070 | | .17500 | .17500 |
| .902 | | 3.017 | | | -.34690 | | .22140 | .20280 |
| .899 | | 5.585 | | | -.34510 | | .24210 | .22270 |
| .899 | | 7.615 | | | -.32840 | | .26590 | .23830 |
| .900 | | 8.641 | | | -.33280 | | .27360 | .24520 |
| .899 | | 10.681 | | | -.34420 | | .27290 | .24780 |
| .900 | | 12.749 | | | -.36330 | | .27870 | .24850 |
| .900 | | 15.834 | | | -.40100 | | .26670 | .24000 |
| .900 | | GRADIENT | | | -.00831 | | .01662 | .01387 |

| RUN NO. | 230/ 0 | RN/L = | 4.99 | GRADIENT INTERVAL = | -5.00/ 5.00 |
|---------|--------|----------|------|---------------------|-------------|
| MACH | | ALPHA | | CP240 | CP12 |
| 1.198 | | -5.825 | | - .30980 | CP13 |
| 1.202 | | - .830 | | - .29220 | .34750 |
| 1.197 | | 1.739 | | - .28890 | .36240 |
| 1.194 | | 4.320 | | - .28640 | .36420 |
| 1.200 | | 6.341 | | - .28980 | .36640 |
| 1.197 | | 9.387 | | - .28380 | .37480 |
| 1.196 | | 9.469 | | - .28230 | .37430 |
| 1.193 | | 11.551 | | - .28350 | .37770 |
| 1.198 | | 14.675 | | - .30390 | .38090 |
| | | GRADIENT | | .00113 | .00078 |
| | | | | | |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1755

AMES 118-1-11 OAI45A 01

(E2F050) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = 10.000
 AILRON = 3.000 BDELAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 221/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|-------|----------|---------|--------|---------|
| 1.297 | -5.836 | -.30670 | .38010 | .38980 |
| 1.296 | -.758 | -.30770 | .41620 | .40340 |
| 1.295 | 1.723 | -.28020 | .43310 | .39680 |
| 1.297 | 4.286 | -.27410 | .44430 | .39500 |
| 1.297 | 6.295 | -.26790 | .46470 | .39620 |
| 1.297 | 7.340 | -.26370 | .46310 | .39550 |
| 1.295 | 9.377 | -.25800 | .46610 | .39800 |
| 1.295 | 11.493 | -.25420 | .47410 | .40050 |
| 1.294 | 14.563 | -.26680 | .47670 | .40900 |
| | GRADIENT | .00664 | .00556 | -.00166 |

RUN NO. 212/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|-------|----------|---------|--------|--------|
| 1.402 | -5.003 | -.30420 | .42300 | .42350 |
| 1.403 | .143 | -.28930 | .42460 | .45130 |
| 1.401 | 2.624 | -.27850 | .47580 | .46700 |
| 1.400 | 5.224 | -.26600 | .49300 | .48140 |
| 1.399 | 7.156 | -.24420 | .50120 | .48410 |
| 1.399 | 8.215 | -.23780 | .50150 | .47680 |
| 1.397 | 10.365 | -.21980 | .51600 | .47210 |
| 1.398 | 12.471 | -.23580 | .51530 | .47630 |
| | GRADIENT | .00435 | .02064 | .00633 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1756

AMES 118-1-11 0A145A 01

(E2F051) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = 10.000
 AILRON = 5.000 BDFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 266/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .599 | -5.759 | -.28210 | -.03360 | -.04380 |
| .598 | -.808 | -.30550 | .10350 | .08660 |
| .598 | 1.731 | -.31540 | .14050 | .12910 |
| .598 | 4.260 | -.32640 | .17870 | .16370 |
| .598 | 6.249 | -.35500 | .20020 | .17850 |
| .598 | 7.292 | -.36710 | .20190 | .18560 |
| .598 | 9.344 | -.40580 | .21560 | .18940 |
| .596 | 11.376 | -.42690 | .21570 | .19030 |
| .598 | 14.381 | -.41670 | .20150 | .17210 |
| | GRADIENT | -.00412 | .01484 | .01521 |

RUN NO. 252/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .799 | -5.804 | -.23470 | -.00260 | -.00540 |
| .801 | -.811 | -.24340 | .12320 | .10250 |
| .799 | 1.730 | -.25980 | .15350 | .13860 |
| .797 | 4.254 | -.26870 | .18810 | .17040 |
| .799 | 6.290 | -.32860 | .21040 | .18370 |
| .798 | 7.313 | -.34490 | .21800 | .19530 |
| .797 | 9.349 | -.33980 | .22820 | .20090 |
| .800 | 11.407 | -.32920 | .23760 | .20320 |
| .800 | 14.475 | -.32250 | .22980 | .19430 |
| | GRADIENT | -.00500 | .01281 | .01341 |

RUN NO. 199/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|--------|--------|
| .901 | -4.717 | -.27860 | .09370 | .09610 |
| .899 | .480 | -.31750 | .18470 | .17330 |
| .901 | 3.010 | -.34650 | .21680 | .20120 |
| .901 | 5.575 | -.33850 | .24840 | .22860 |
| .901 | 7.609 | -.32580 | .26890 | .23940 |
| .900 | 8.631 | -.32980 | .27410 | .24660 |
| .900 | 10.668 | -.33120 | .27920 | .25240 |
| .898 | 12.725 | -.35220 | .27730 | .25020 |
| .898 | 15.811 | -.39690 | .26490 | .24110 |
| | GRADIENT | -.00859 | .01617 | .01379 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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(E2F051) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = 10.000
 AILRON = 5.000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 231/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|-------|----------|---------|--------|--------|
| 1.200 | -5.826 | -29310 | .33110 | .34860 |
| 1.205 | -.826 | -27120 | .38490 | .36490 |
| 1.199 | 1.740 | -28430 | .40320 | .36540 |
| 1.194 | 4.319 | -27720 | .41290 | .36630 |
| 1.196 | 6.345 | -28230 | .43160 | .37170 |
| 1.195 | 7.388 | -27390 | .43080 | .37450 |
| 1.199 | 9.448 | -29810 | .44180 | .38370 |
| 1.197 | 11.531 | -27290 | .44590 | .38260 |
| 1.186 | 14.663 | -28920 | .43850 | .37490 |
| | GRADIENT | -.00116 | .00544 | .00027 |

RUN NO. 222/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|-------|----------|--------|--------|---------|
| 1.297 | -5.831 | -29850 | .37910 | .38890 |
| 1.299 | -.826 | -26910 | .41720 | .40590 |
| 1.296 | 1.690 | -27310 | .43320 | .39790 |
| 1.296 | 4.246 | -26800 | .44260 | .39430 |
| 1.294 | 6.285 | -25240 | .46330 | .39590 |
| 1.295 | 7.335 | -24610 | .46120 | .39650 |
| 1.295 | 9.400 | -24200 | .46580 | .39770 |
| 1.294 | 11.529 | -24620 | .47340 | .40040 |
| 1.294 | 14.578 | -28610 | .47440 | .40920 |
| | GRADIENT | .00022 | .00500 | -.00228 |

RUN NO. 213/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|-------|----------|---------|--------|--------|
| 1.403 | -5.021 | -.30000 | .42340 | .42440 |
| 1.409 | .071 | -.26900 | .42210 | .46200 |
| 1.401 | 2.659 | -.26120 | .47370 | .46440 |
| 1.401 | 5.133 | -.25090 | .49330 | .47140 |
| 1.399 | 7.228 | -.23400 | .50020 | .46430 |
| 1.398 | 8.183 | -.22190 | .50150 | .46510 |
| 1.397 | 10.226 | -.20530 | .51450 | .46900 |
| 1.398 | 12.377 | -.21010 | .51310 | .46450 |
| | GRADIENT | .00301 | .01994 | .00093 |

PARAMETRIC DATA

REFERENCE DATA

| ITEM NO. | DESCRIPTION | QTY | UNIT | PRICE | TOTAL |
|----------|-------------|-----------|--------|-----------|--------------|
| 1 | SREF | 2690.0000 | SQ.FT. | 1076.6800 | 2,897,371.20 |
| 2 | LREF | 474.8100 | INCHES | .0000 | 4,748.10 |
| 3 | BREF | 936.6800 | INCHES | 375.0000 | 351,056.40 |
| 4 | SCALE | .0500 | | | .05 |
| 5 | BETA | | | | .000 |
| 6 | BOFLAP | | | | 3.000 |
| 7 | SPDBRK | | | | 25.000 |
| 8 | RN/L | | | | 5.000 |
| 9 | RUDDER | | | | |
| 10 | ELEVON | | | | 10.000 |

| RUN NO. | 253/ 0 | RN/L | = | 4.98 | GRADIENT | INTERVAL | = | -5.00/ | 5.00 |
|---------|--------|------|---|----------|----------|----------|---|---------|------|
| | | MACH | | ALPHA | CP240 | CP12 | | CP13 | |
| | | .599 | | -5.1845 | -.25230 | -.03570 | | -.04320 | |
| | | .600 | | -.825 | -.21850 | .10810 | | .09340 | |
| | | .600 | | 1.714 | -.22230 | .14320 | | .13150 | |
| | | .599 | | 4.185 | -.23640 | .17460 | | .15930 | |
| | | .599 | | 6.244 | -.25210 | .19860 | | .18180 | |
| | | .598 | | 7.276 | -.26460 | .20370 | | .18570 | |
| | | .597 | | 9.311 | -.28210 | .21060 | | .18500 | |
| | | .597 | | 11.386 | -.30250 | .21660 | | .18680 | |
| | | .596 | | 14.452 | -.33320 | .19790 | | .17100 | |
| | | | | GRADIENT | -.00356 | .01328 | | .01316 | |

| RUN NO. | 249/ 0 | RN/L | 5.03 | GRADIENT | INTERVAL | -5.00/ 5.00 |
|---------|--------|----------|---------|----------|----------|-------------|
| | MACH | ALPHA | CP240 | CP12 | CP13 | |
| | .801 | -4.401 | -.18980 | .03550 | .03060 | |
| | .801 | -.858 | -.18280 | .12850 | .10400 | |
| | .801 | 1.652 | -.20510 | .15370 | .13790 | |
| | .801 | 4.158 | -.19030 | .18900 | .16710 | |
| | .800 | 6.242 | -.19620 | .21370 | .18830 | |
| | .801 | 7.274 | -.22570 | .22150 | .19270 | |
| | .797 | 9.291 | -.24280 | .22310 | .19740 | |
| | .798 | 11.374 | -.24060 | .23870 | .19970 | |
| | .800 | 14.472 | -.31590 | .23500 | .19260 | |
| | | GRADIENT | -.00080 | .01757 | .01594 | |

| RUN NO. | 196/ 0 | RN/L = | 4.97 | GRADIENT | INTERVAL = | -5.00/ | 5.00 |
|---------|----------|---------|--------|----------|------------|--------|------|
| MACH | ALPHA | CR240 | CR12 | CR13 | | | |
| .901 | -4.897 | -.24640 | .09310 | | | .09280 | |
| .901 | 3.48 | -.23830 | .18780 | | | .17550 | |
| .900 | 2.925 | -.27890 | .21980 | | | .20270 | |
| .899 | 5.453 | -.32320 | .24390 | | | .22210 | |
| .900 | 7.497 | -.33560 | .26620 | | | .23600 | |
| .899 | 8.518 | -.34750 | .26890 | | | .24150 | |
| .899 | 10.575 | -.36180 | .27630 | | | .24360 | |
| .899 | 12.653 | -.40200 | .27810 | | | .24310 | |
| .899 | 15.714 | -.45790 | .26780 | | | .23930 | |
| | GRADIENT | -.00332 | .01647 | | | .01430 | |

(E2F052) (06 MAR 80)

REFERENCE DATA

| | | | | | | | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|--------|--------|---|---------|--------|---|----------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1075.6800 | IN. X0 | BEIA | = | .0000 | ELEVON | = | -10.0000 |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. Y0 | AILRON | = | 3.0000 | BDFLAP | = | .0000 |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. Z0 | SPBRK | = | 25.0000 | RUDDER | = | .0000 |
| SCALE | = | .0500 | | | | | | RN/L | = | 5.0000 | | | |

PARAMETRIC DATA

| | | | | | |
|--------|---|--------|--------|---|---------|
| BETA | = | .000 | ELEVON | = | -10.000 |
| AILRON | = | 3.000 | BDFLAP | = | .000 |
| SPOBRK | = | 25.000 | RUDDER | = | .000 |
| RN/L | = | 5.000 | | | |

| | | | | | | |
|----------|--------|------|--------|-------------------|----------|------|
| PRINT NO | 228/ 0 | RN/I | = 5.00 | GRADIENT INTERVAL | = -5.00/ | 5.00 |
|----------|--------|------|--------|-------------------|----------|------|

| MACH | ALPHA | CP240 | CP12 | CP13 |
|-------|----------|---------|--------|--------|
| 1.201 | -5.852 | -28610 | 33240 | 34880 |
| 1.202 | -8.819 | -27650 | 38560 | 36550 |
| 1.202 | 1.746 | -29160 | 40550 | 36710 |
| 1.198 | 4.283 | -30630 | 41660 | 37040 |
| 1.197 | 6.292 | -30530 | 43150 | 37290 |
| 1.198 | 7.325 | -31140 | 43370 | 37410 |
| 1.195 | 9.415 | -32450 | 43590 | 37850 |
| 1.194 | 11.495 | -33840 | 44570 | 38150 |
| 1.190 | 14.688 | -34630 | 44280 | 37500 |
| | GRADIENT | -0.0584 | 0.0608 | 0.0096 |

| Run No | BN/1 | BN/1 | GRADIENT | INTERVAL | | |
|--------|------|------|----------|----------|--------|------|
| 318/0 | 4 | 99 | | | -5.00/ | 5.00 |

| MACH | ALPHA | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|---------|
| 1.297 | -5.145 | -.27520 | -.39440 | .38680 |
| 1.296 | .127 | -.29790 | .41660 | .40020 |
| 1.296 | 2.634 | -.30020 | .43650 | .39760 |
| 1.294 | 5.220 | -.31250 | .44770 | .39430 |
| 1.295 | 7.253 | -.32880 | .46350 | .39550 |
| 1.296 | 8.281 | -.33230 | .46020 | .39570 |
| 1.296 | 10.357 | -.34080 | .47360 | .39740 |
| 1.295 | 12.437 | -.34460 | .47460 | .40070 |
| 1.294 | 15.586 | -.35430 | .47710 | .40970 |
| | GRADIENT | -.00192 | .00794 | -.00104 |

| | | | | | | | |
|--------|------|---|------|-------------------|---|--------|------|
| 210/ 0 | RN/1 | = | 5.09 | GRADIENT INTERVAL | = | -5.00/ | 5.00 |
|--------|------|---|------|-------------------|---|--------|------|

| MACH | ALPHA | CP340 | CP12 | CP13 |
|-------|----------|----------|--------|--------|
| 1.404 | -5.113 | -27160 | .42220 | .42350 |
| 1.404 | .044 | -29420 | .42100 | .45400 |
| 1.403 | 2.591 | -29960 | .47420 | .46940 |
| 1.400 | 5.117 | -30870 | .48970 | .47740 |
| 1.399 | 7.126 | -32160 | .50070 | .48810 |
| 1.400 | 8.162 | -32040 | .50170 | .48620 |
| 1.401 | 10.299 | -32560 | .51540 | .48300 |
| 1.399 | 12.358 | -33010 | .51670 | .48050 |
| 1.400 | 15.483 | -33460 | .51910 | .47400 |
| | GRADIENT | - .00212 | .02089 | .00605 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

(E2F053) (06 MAR 80)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETA = .000
AILRON = .000
SPDRK = .000
RN/L = .000
ELEVON = -10.000
BDFLAP = .000
RUDDER = .000

RUN NO. 268/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .596 | -5.885 | -.24130 | -.04200 | -.04960 |
| .601 | -.994 | -.20950 | .09720 | .08440 |
| .601 | 1.692 | -.21280 | .14130 | .12820 |
| .600 | 4.163 | -.22780 | .17420 | .16100 |
| .599 | 6.224 | -.24550 | .19490 | .18050 |
| .599 | 7.253 | -.25200 | .20150 | .18920 |
| .598 | 9.292 | -.26490 | .21110 | .19190 |
| .597 | 11.359 | -.28280 | .21430 | .19350 |
| .597 | 14.446 | -.32430 | .19750 | .17100 |
| | GRADIENT | -.00352 | .01496 | .01488 |

RUN NO. 254/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .798 | -5.855 | -.26620 | -.00140 | -.00650 |
| .802 | -.853 | -.23330 | .12650 | .10700 |
| .801 | 1.659 | -.24710 | .15570 | .14010 |
| .802 | 4.171 | -.26250 | .19180 | .16780 |
| .800 | 6.229 | -.28320 | .20870 | .18510 |
| .800 | 7.261 | -.29560 | .21900 | .19350 |
| .798 | 9.290 | -.31520 | .22280 | .19610 |
| .799 | 11.355 | -.32240 | .23680 | .20240 |
| .799 | 14.459 | -.39400 | .22950 | .19280 |
| | GRADIENT | -.00581 | .01300 | .01210 |

RUN NO. 201/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|--------|--------|
| .899 | -4.804 | -.25270 | .09110 | .09150 |
| .902 | .367 | -.24660 | .18910 | .17620 |
| .902 | 2.926 | -.28850 | .21980 | .20380 |
| .899 | 5.475 | -.33020 | .24300 | .22080 |
| .897 | 7.531 | -.35050 | .26160 | .23120 |
| .901 | 8.584 | -.35260 | .27170 | .24360 |
| .901 | 10.607 | -.36410 | .27610 | .24600 |
| .899 | 12.685 | -.38720 | .28040 | .25010 |
| .900 | 15.759 | -.46160 | .26330 | .23590 |
| | GRADIENT | -.00379 | .01698 | .01480 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = -10.000
 AILRON = 5.000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

| RUN NO. | 233/ 0 | MACH | ALPHA | CP240 | CP12 | CP13 | GRADIENT INTERVAL | -5.00/ | 5.00 |
|---------|--------|-------|----------|---------|--------|--------|-------------------|--------|------|
| | | | | | | | | | |
| | | 1.202 | -4.500 | -.27950 | .34920 | .39510 | | | |
| | | 1.202 | -.794 | -.28180 | .38500 | .36450 | | | |
| | | 1.201 | 1.776 | -.29910 | .40570 | .36790 | | | |
| | | 1.199 | 4.307 | -.31160 | .41780 | .37020 | | | |
| | | 1.196 | 6.324 | -.32210 | .43000 | .37230 | | | |
| | | 1.199 | 7.362 | -.31480 | .43710 | .37710 | | | |
| | | 1.196 | 9.434 | -.33810 | .43950 | .38030 | | | |
| | | 1.202 | 11.524 | -.32170 | .45300 | .38820 | | | |
| | | 1.199 | 14.560 | -.32950 | .44970 | .38340 | | | |
| | | | GRADIENT | -.00378 | .00791 | .00172 | | | |

| RUN NO. | 224/ 0 | MACH | ALPHA | CP240 | CP12 | CP13 | GRADIENT INTERVAL | -5.00/ | 5.00 |
|---------|--------|-------|----------|---------|--------|---------|-------------------|--------|------|
| | | | | | | | | | |
| | | 1.299 | -5.915 | -.28180 | .38090 | .39170 | | | |
| | | 1.300 | -.829 | -.29010 | .42030 | .40760 | | | |
| | | 1.299 | 1.730 | -.29850 | .43470 | .39890 | | | |
| | | 1.296 | 4.217 | -.30440 | .44460 | .39630 | | | |
| | | 1.295 | 6.249 | -.31890 | .46450 | .39780 | | | |
| | | 1.299 | 7.285 | -.32840 | .46500 | .39840 | | | |
| | | 1.299 | 9.374 | -.32680 | .46790 | .40060 | | | |
| | | 1.310 | 11.436 | -.33080 | .48150 | .41040 | | | |
| | | 1.306 | 14.566 | -.34600 | .48540 | .41940 | | | |
| | | | GRADIENT | -.00284 | .00482 | -.00225 | | | |

| RUN NO. | 215/ 0 | MACH | ALPHA | CP240 | CP12 | CP13 | GRADIENT INTERVAL | -5.00/ | 5.00 |
|---------|--------|-------|----------|---------|--------|--------|-------------------|--------|------|
| | | | | | | | | | |
| | | 1.399 | -5.120 | -.27800 | .40830 | .42500 | | | |
| | | 1.409 | .012 | -.28850 | .41780 | .45850 | | | |
| | | 1.405 | 2.583 | -.29170 | .47460 | .46310 | | | |
| | | 1.400 | 5.140 | -.30530 | .48840 | .46250 | | | |
| | | 1.401 | 7.231 | -.31210 | .49730 | .46390 | | | |
| | | 1.402 | 8.268 | -.31300 | .50010 | .46420 | | | |
| | | 1.398 | 10.337 | -.31900 | .51270 | .46610 | | | |
| | | 1.393 | 12.420 | -.32750 | .51240 | .46490 | | | |
| | | | GRADIENT | -.00124 | .02205 | .00179 | | | |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.8800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
AILRON = 5.000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 0/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP240 | CP12 | CP13 |
|------|----------|---------|--------|--------|
| .599 | -29.973 | -.23600 | .17670 | .16230 |
| .600 | -20.000 | -.25680 | .17650 | .16100 |
| .601 | -14.938 | -.24390 | .17510 | .16340 |
| .599 | -9.896 | -.23180 | .17250 | .16090 |
| .599 | -5.972 | -.22030 | .17490 | .16050 |
| .599 | -3.962 | -.22230 | .17480 | .16130 |
| .599 | -1.983 | -.23210 | .17520 | .16210 |
| .599 | .038 | -.25470 | .17590 | .16180 |
| .599 | 2.044 | -.27140 | .17610 | .16030 |
| .599 | 4.004 | -.28260 | .17440 | .16450 |
| .599 | 6.117 | -.30800 | .17420 | .16310 |
| .598 | 9.916 | -.32930 | .18020 | .16460 |
| .599 | 14.888 | -.42590 | .18250 | .16880 |
| .600 | GRADIENT | -.00802 | .00001 | .00023 |

RUN NO. 0/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP240 | CP12 | CP13 |
|------|----------|---------|--------|--------|
| .800 | -29.978 | -.21510 | .19250 | .17130 |
| .802 | -19.998 | -.23620 | .19350 | .17300 |
| .801 | -14.935 | -.25670 | .18930 | .16900 |
| .801 | -9.898 | -.26280 | .19020 | .16850 |
| .801 | -5.974 | -.24280 | .19010 | .16750 |
| .800 | -3.972 | -.23870 | .18770 | .16770 |
| .800 | -1.998 | -.24250 | .19120 | .16810 |
| .800 | .038 | -.26200 | .19010 | .16660 |
| .800 | 2.049 | -.27790 | .19360 | .16960 |
| .800 | 4.004 | -.30570 | .18810 | .16830 |
| .801 | 6.125 | -.29440 | .19810 | .17310 |
| .801 | 9.922 | -.32610 | .19460 | .17410 |
| .801 | 14.886 | -.48480 | .19510 | .17670 |
| .801 | GRADIENT | -.00847 | .00016 | .00014 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ATLRON = 5.000 BDFLAP = .000
SPOBRK = 25.000 RUDDER = .000
RN/L = 5.000

| RUN NO. | 0 / 0 | MACH | ELEVON | CP240 | CP12 | CP13 | GRADIENT INTERVAL | -5.00/ | 5.00 |
|---------|-------|------|----------|----------|--------|--------|-------------------|--------|------|
| | | .901 | -30.725 | -22970 | .24620 | .22600 | | | |
| | | .902 | -20.474 | -28860 | .24740 | .22620 | | | |
| | | .902 | -15.355 | -31500 | .24630 | .22620 | | | |
| | | .901 | -10.177 | -33020 | .24530 | .22450 | | | |
| | | .902 | -6.220 | -33280 | .24420 | .22400 | | | |
| | | .899 | -4.160 | -32860 | .24120 | .22270 | | | |
| | | .901 | -2.135 | -32230 | .24560 | .22540 | | | |
| | | .900 | -1.102 | -33640 | .24100 | .22080 | | | |
| | | .900 | 1.941 | -35050 | .24180 | .22220 | | | |
| | | .900 | 3.951 | -32390 | .24480 | .22610 | | | |
| | | .900 | 6.085 | -33480 | .24140 | .22340 | | | |
| | | .899 | 9.966 | -34750 | .24270 | .22180 | | | |
| | | .900 | 15.012 | -38300 | .24460 | .22550 | | | |
| | | | GRADIENT | -1.00093 | .00017 | .00018 | | | |

| RUN NO. | 0 / 0 | MACH | ELEVON | CP240 | CP12 | CP13 | GRADIENT INTERVAL | -5.00/ | 5.00 |
|---------|-------|------|----------|--------|--------|--------|-------------------|--------|------|
| | | .952 | -30.725 | -22460 | .27680 | .25550 | | | |
| | | .951 | -20.456 | -27440 | .27750 | .25660 | | | |
| | | .953 | -15.364 | -31520 | .27850 | .25610 | | | |
| | | .951 | -10.176 | -33520 | .27780 | .25630 | | | |
| | | .951 | -6.214 | -34440 | .27650 | .25390 | | | |
| | | .951 | -4.167 | -34260 | .27660 | .25550 | | | |
| | | .950 | -2.156 | -34880 | .27570 | .25310 | | | |
| | | .951 | -1.108 | -33840 | .27650 | .25570 | | | |
| | | .951 | 1.934 | -32270 | .27910 | .25670 | | | |
| | | .951 | 3.930 | -31830 | .27950 | .25610 | | | |
| | | .951 | 6.091 | -31960 | .27900 | .25830 | | | |
| | | .950 | 9.969 | -34370 | .27740 | .25520 | | | |
| | | .950 | 15.020 | -39970 | .27650 | .25660 | | | |
| | | | GRADIENT | .00369 | .00045 | .00024 | | | |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(EF054) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 AILRON = 5.000 BOFLAP = .000
 SPDBRK = 25.000
 RUDDER = 5.000
 RN/L = 5.000

| RUN NO. | 0/ 0 | RN/L = 5.02 | GRADIENT INTERVAL = -5.00/ 5.00 |
|---------|----------|-------------|---------------------------------|
| MACH | | | |
| 1.202 | ELEVON | CP240 | CP12 |
| 1.202 | -29.965 | -25600 | .37370 |
| 1.202 | -19.985 | -26400 | .37290 |
| 1.202 | -14.932 | -28350 | .37380 |
| 1.201 | -9.883 | -31130 | .37290 |
| 1.199 | -5.969 | -30630 | .37190 |
| 1.199 | -3.967 | -30730 | .37010 |
| 1.200 | -1.990 | -30200 | .37170 |
| 1.199 | .042 | -30920 | .36940 |
| 1.200 | 2.057 | -30750 | .37140 |
| 1.201 | 4.004 | -30730 | .37220 |
| 1.199 | 6.117 | -29140 | .37130 |
| 1.198 | 9.921 | -28410 | .36910 |
| 1.202 | 14.878 | -28890 | .37480 |
| | GRADIENT | -.00028 | .00022 |
| RUN NO. | 0/ 0 | RN/L = 4.99 | GRADIENT INTERVAL = -5.00/ 5.00 |
| MACH | | | |
| 1.297 | ELEVON | CP240 | CP12 |
| 1.299 | -29.986 | -25870 | .44600 |
| 1.300 | -19.997 | -28520 | .44480 |
| 1.297 | -14.937 | -31720 | .44510 |
| 1.294 | -9.881 | -30320 | .44460 |
| 1.294 | -5.972 | -30440 | .44200 |
| 1.295 | -3.975 | -30460 | .44100 |
| 1.295 | -1.995 | -30900 | .44180 |
| 1.296 | .040 | -31450 | .44110 |
| 1.297 | 2.053 | -31490 | .44370 |
| 1.296 | 4.001 | -30830 | .44310 |
| 1.297 | 6.125 | -29930 | .44270 |
| 1.296 | 9.934 | -27610 | .44290 |
| 1.297 | 14.726 | -27680 | .44390 |
| | GRADIENT | -.00067 | .00031 |

OAI45 TABULATED FORCE DATA

AMES 118-1-11 OAI45A 01

(E2F054) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0

LREF = 474.8100 INCHES YMRP = .0000 IN. Y0

BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0

SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000

AILRON = 5.000 BDFLAP = .000

SPDBRK = 25.000 RUDDER = .000

RN/L = 5.000

RUN NO. 0/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP240 | CP12 | CP13 |
|-------|----------|---------|--------|--------|
| 1.403 | -29.992 | -.25860 | .48790 | .46180 |
| 1.404 | -19.982 | -.29350 | .48980 | .46100 |
| 1.405 | -14.927 | -.30890 | .48780 | .46030 |
| 1.402 | -9.893 | -.30310 | .49040 | .46120 |
| 1.401 | -5.969 | -.30710 | .49010 | .46090 |
| 1.401 | -3.967 | -.30870 | .48900 | .45890 |
| 1.403 | -1.990 | -.31290 | .48890 | .46150 |
| 1.403 | .045 | -.31610 | .49140 | .46150 |
| 1.403 | 2.051 | -.31500 | .49030 | .46130 |
| 1.402 | 4.002 | -.30600 | .48940 | .45960 |
| 1.402 | 5.881 | -.29250 | .48910 | .46010 |
| 1.401 | 9.949 | -.25730 | .49160 | .46220 |
| 1.401 | 14.761 | -.26560 | .49210 | .46090 |
| | GRADIENT | .00016 | .00011 | .00006 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

AMES 118-1-11 0A145A 01

(E2F055) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 5.000
AILRON = 5.000
SPDRK = 25.000
RN/L = 5.000

BETA = 2.000
BDFLAP = .000
RUDDER = .000

RUN NO. 217/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP240 | CP12 | CP13 |
|-------|----------|---------|--------|--------|
| 1.401 | -29.983 | -.26880 | .46530 | .47660 |
| 1.403 | -19.987 | -.29910 | .46820 | .47960 |
| 1.403 | -14.938 | -.31480 | .46890 | .47770 |
| 1.404 | -9.888 | -.30230 | .46710 | .47840 |
| 1.403 | -5.974 | -.30310 | .47060 | .47870 |
| 1.403 | -3.965 | -.30590 | .46890 | .47740 |
| 1.404 | -1.985 | -.30640 | .46960 | .47970 |
| 1.403 | .033 | -.31250 | .46780 | .47850 |
| 1.403 | 2.039 | -.30660 | .46890 | .47970 |
| 1.404 | 3.996 | -.29700 | .46940 | .47990 |
| 1.403 | 6.119 | -.27360 | .47090 | .48070 |
| 1.401 | 9.928 | -.25130 | .46770 | .47800 |
| 1.401 | 14.754 | -.26000 | .46850 | .48030 |
| | GRADIENT | .00088 | .00001 | .00025 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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(E2F056) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = -5.000 BETA = .000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = 5.000 BDFLAP = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDBRK = 25.000 RUDDER = .000
SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 234/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|---------|
| 1.198 | -29.975 | -.16990 | .33130 | .34760 |
| 1.208 | -19.987 | -.19340 | .33960 | .35410 |
| 1.209 | -14.932 | -.23160 | .33870 | .35370 |
| 1.206 | -9.891 | -.26700 | .33970 | .35420 |
| 1.205 | -5.972 | -.28610 | .33840 | .35340 |
| 1.202 | -3.970 | -.28820 | .33640 | .35270 |
| 1.204 | -1.985 | -.28990 | .33770 | .35280 |
| 1.202 | .052 | -.29300 | .33540 | .35080 |
| 1.203 | 2.049 | -.29780 | .33740 | .35300 |
| 1.202 | 4.006 | -.29090 | .33640 | .35060 |
| 1.202 | 6.124 | -.28270 | .33730 | .35220 |
| 1.201 | 9.914 | -.31480 | .33570 | .35100 |
| 1.201 | 14.858 | -.28480 | .33550 | .35100 |
| | GRADIENT | -.00067 | -.00002 | -.00020 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(EZF057) (15 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = -11.700
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 297/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|----------|--------|----------|----------|----------|----------|----------|----------|----------|
| .599 | -5.042 | -23020 | -23280 | -23280 | -23140 | -24300 | -24300 | -24110 | -24580 | -04220 | -04020 |
| .600 | -0.075 | -22810 | -22580 | -22670 | -22290 | -23030 | -23030 | -22840 | -23100 | -07990 | -06900 |
| .598 | 2.467 | -22920 | -22760 | -23090 | -23020 | -23670 | -23670 | -23980 | -24940 | -12050 | -09750 |
| .597 | 4.965 | -22780 | -22590 | -22640 | -22330 | -24290 | -24290 | -24930 | -27000 | -15170 | -13300 |
| .597 | 5.983 | -22770 | -22650 | -23030 | -22930 | -24990 | -24990 | -25550 | -27630 | -16010 | -13790 |
| .597 | 7.021 | -22470 | -22210 | -22210 | -22470 | -25250 | -25250 | -26580 | -28770 | -17040 | -14850 |
| .598 | 8.054 | -21860 | -21880 | -22220 | -21810 | -25220 | -25220 | -27320 | -29510 | -17610 | -15720 |
| .597 | 9.053 | -22050 | -22200 | -22080 | -22410 | -26780 | -26780 | -27250 | -30410 | -17640 | -15330 |
| .598 | 10.035 | -21750 | -21970 | -21970 | -21870 | -26380 | -26380 | -28880 | -31470 | -18670 | -15880 |
| .597 | 11.136 | -22110 | -22440 | -22130 | -22510 | -26030 | -26030 | -28820 | -32430 | -18720 | -15860 |
| .597 | 12.178 | -22060 | -21760 | -21730 | -21970 | -27470 | -27470 | -29330 | -33460 | -18560 | -14960 |
| .598 | 13.183 | -22350 | -22870 | -22510 | -22390 | -28930 | -28930 | -28930 | -33960 | -17900 | -14680 |
| .597 | 15.225 | -23290 | -22840 | -23740 | -23550 | -31590 | -31590 | -32960 | -33730 | -16040 | -11800 |
| GRADIENT | | .00006 | -0.00002 | .00005 | -0.00009 | -0.00250 | -0.00250 | -0.00415 | -0.00774 | -0.01425 | -0.01269 |

RUN NO. 291/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|----------|----------|--------|----------|----------|----------|----------|----------|----------|----------|
| .799 | -5.060 | -24090 | -23960 | -24110 | -23810 | -26240 | -26240 | -25970 | -26760 | -01950 | -02090 |
| .800 | -0.091 | -23490 | -23670 | -23950 | -23630 | -24930 | -24930 | -25280 | -25630 | -12550 | -11350 |
| .799 | 2.433 | -23680 | -23360 | -23570 | -23770 | -25760 | -25760 | -26350 | -27000 | -16550 | -13820 |
| .798 | 4.967 | -23610 | -23850 | -23850 | -24000 | -26600 | -26600 | -26880 | -28570 | -19210 | -16530 |
| .798 | 5.995 | -22590 | -22720 | -22670 | -23190 | -27020 | -27020 | -27370 | -29360 | -20400 | -17480 |
| .799 | 7.044 | -22800 | -23210 | -22670 | -23240 | -27710 | -27710 | -29220 | -30840 | -21870 | -18330 |
| .798 | 8.056 | -23000 | -23220 | -22330 | -22770 | -29250 | -29250 | -30850 | -31270 | -21500 | -18820 |
| .800 | 9.100 | -22390 | -23100 | -23450 | -23360 | -29520 | -29520 | -30840 | -31920 | -22710 | -19520 |
| .797 | 10.098 | -23320 | -22910 | -23390 | -23910 | -30740 | -30740 | -32310 | -32270 | -22970 | -19440 |
| .798 | 11.150 | -23820 | -24250 | -23080 | -23760 | -31920 | -31920 | -32360 | -33300 | -23290 | -19590 |
| .796 | 12.156 | -24700 | -24660 | -25020 | -24090 | -33690 | -33690 | -34490 | -36080 | -23360 | -19430 |
| .797 | 13.199 | -25280 | -25220 | -24390 | -25280 | -36920 | -36920 | -36520 | -37000 | -22500 | -18520 |
| .798 | 15.246 | -26030 | -26880 | -26750 | -27520 | -38820 | -38820 | -38930 | -39500 | -22020 | -17250 |
| GRADIENT | | -0.00024 | -0.00036 | .00020 | -0.00073 | -0.00330 | -0.00330 | -0.00316 | -0.00581 | -0.01316 | -0.01024 |

DATE 10 MAR 80

OAIWS TABULATED FORCE DATA

PAGE 1766

AMES 118-1-11 OAIWSA 01

(E2F057) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = -.11.700
 SPDRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 288/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .901 | -5.079 | -26030 | -26150 | -25950 | -25620 | -30160 | -30160 | -30050 | -30050 | .08480 | .08750 |
| .901 | -1.102 | -24220 | -24920 | -24860 | -24630 | -29890 | -29890 | -29750 | -30680 | .17650 | .16080 |
| .899 | 2.461 | -25000 | -24560 | -24770 | -24720 | -31300 | -31300 | -32500 | -33170 | .21270 | .18310 |
| .896 | 5.000 | -25100 | -24910 | -24910 | -24470 | -33190 | -33190 | -34700 | -36050 | .24070 | .21200 |
| .899 | 6.016 | -24510 | -24450 | -24490 | -24250 | -33400 | -33400 | -34690 | -34780 | .25030 | .21830 |
| .899 | 7.047 | -25100 | -24420 | -24750 | -24610 | -34280 | -34280 | -33910 | -34420 | .26080 | .22350 |
| .898 | 8.076 | -24840 | -25180 | -24730 | -24790 | -35080 | -35080 | -34620 | -35800 | .26330 | .22850 |
| .899 | 9.148 | -25360 | -25070 | -24690 | -25150 | -34040 | -34040 | -35320 | -35640 | .27120 | .23820 |
| .899 | 10.118 | -24800 | -25110 | -25120 | -24900 | -34110 | -34110 | -35370 | -35690 | .27920 | .24040 |
| .897 | 11.189 | -26250 | -26710 | -25740 | -26160 | -35560 | -35560 | -36600 | -37560 | .27750 | .23880 |
| .899 | 12.200 | -26170 | -25280 | -26370 | -26270 | -36770 | -36770 | -37380 | -38250 | .28420 | .24020 |
| .897 | 13.239 | -27310 | -26340 | -27210 | -27800 | -38840 | -38840 | -39460 | -39970 | .27820 | .23400 |
| .903 | 15.258 | -28190 | -28590 | -28780 | -28270 | -40810 | -40810 | -40990 | -42570 | .27910 | .23060 |
| | GRADIENT | .00304 | .00140 | .00035 | .00035 | .00550 | .00550 | .01073 | .00972 | .01413 | .00870 |

RUN NO. 282/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .952 | -5.075 | -29760 | -29390 | -29690 | -29680 | -40380 | -40380 | -40910 | -41920 | .13350 | .13770 |
| .952 | -1.068 | -28280 | -28180 | -28030 | -28080 | -36580 | -36580 | -37660 | -38560 | .22110 | .20470 |
| .950 | 2.467 | -28100 | -28370 | -28210 | -28550 | -36920 | -36920 | -38430 | -39230 | .25670 | .22560 |
| .946 | 5.034 | -26750 | -26890 | -26850 | -27240 | -34140 | -34140 | -35010 | -36010 | .27890 | .24920 |
| .949 | 6.022 | -26010 | -26330 | -26840 | -26920 | -34020 | -34020 | -34790 | -35550 | .29100 | .25960 |
| .948 | 7.066 | -26160 | -26210 | -27140 | -26750 | -35690 | -35690 | -36630 | -36980 | .29990 | .25950 |
| .947 | 8.086 | -26770 | -27510 | -27070 | -26720 | -36100 | -36100 | -36850 | -37580 | .30140 | .26660 |
| .954 | 9.110 | -26280 | -25930 | -26150 | -25760 | -37070 | -37070 | -37710 | -37540 | .31020 | .27210 |
| .944 | 10.250 | -27440 | -27400 | -26780 | -27620 | -37190 | -37190 | -38520 | -38520 | .31110 | .26960 |
| .945 | 11.198 | -28210 | -28820 | -28350 | -28920 | -38210 | -38210 | -38770 | -38800 | .31370 | .27070 |
| .946 | 12.192 | -28400 | -29080 | -28980 | -29460 | -39300 | -39300 | -39220 | -39860 | .31640 | .27020 |
| .947 | 13.209 | -30060 | -29330 | -29430 | -29800 | -38910 | -38910 | -40420 | -41380 | .31690 | .27250 |
| .951 | 15.291 | -29980 | -30530 | -31070 | -30910 | -41080 | -41080 | -42200 | -42030 | .31780 | .26610 |
| | GRADIENT | .00071 | .00075 | .00071 | .00185 | .00134 | .00134 | .00304 | .00264 | .01404 | .00825 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

AMES 118-1-11 0A145A 01

(E2F057) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

BETA =
AILRON =
SPOBRK =
RN/L =

ELEVON = .000
BDFLAP = -11.700
RUDDER = .000

PARAMETRIC DATA

RUN NO. 315/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.099 | -5.095 | -34090 | -33840 | -34150 | -33870 | -34080 | -34080 | -34620 | -35400 | .27920 | .28990 |
| 1.109 | .016 | -32190 | -31820 | -31720 | -32010 | -32340 | -32340 | -32220 | -33280 | .34340 | .33140 |
| 1.102 | 2.492 | -31990 | -31740 | -32210 | -31840 | -32910 | -32910 | -33210 | -34320 | .36520 | .33980 |
| 1.098 | 3.017 | -32410 | -32360 | -32360 | -32830 | -33340 | -33340 | -33470 | -34390 | .36830 | .34620 |
| 1.094 | 5.104 | -33540 | -33440 | -33540 | -33560 | -35310 | -35310 | -35640 | -36680 | .38020 | .35480 |
| 1.097 | 6.188 | -32870 | -33010 | -33020 | -33210 | -34250 | -34250 | -34030 | -35940 | .39020 | .35940 |
| 1.100 | 7.104 | -33050 | -32790 | -32730 | -33240 | -33810 | -33810 | -33810 | -34380 | .40140 | .36410 |
| 1.099 | 8.134 | -32970 | -33350 | -33340 | -33340 | -33950 | -33950 | -34250 | -34880 | .40240 | .37060 |
| 1.098 | 9.1-8 | -33350 | -33820 | -33790 | -33850 | -34880 | -34880 | -35760 | -35950 | .40280 | .36950 |
| 1.096 | 10.202 | -34350 | -33790 | -34350 | -34510 | -35190 | -35190 | -36240 | -37050 | .41230 | .37890 |
| 1.097 | 11.182 | -34690 | -35040 | -34940 | -35100 | -36860 | -36860 | -37480 | -37790 | .40810 | .36590 |
| 1.097 | 12.240 | -35510 | -35610 | -35640 | -35850 | -36870 | -36870 | -37360 | -38750 | .41670 | .37190 |
| 1.097 | 13.301 | -36610 | -36580 | -36380 | -36420 | -38080 | -38080 | -38800 | -39170 | .41460 | .36710 |
| 1.091 | 15.365 | -38720 | -38810 | -38990 | -39050 | -40080 | -40080 | -40740 | -41520 | .40860 | .36620 |
| GRADIENT | | -00025 | -00113 | -00208 | -00166 | -00301 | -00301 | -00411 | -00386 | .00846 | .00445 |

RUN NO. 314/ 0 RN/L = 5.12 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.200 | -5.143 | -31050 | -31100 | -31100 | -31060 | -29870 | -29870 | -29930 | -30660 | .32230 | .34090 |
| 1.200 | -0.059 | -30040 | -30050 | -30190 | -30160 | -29470 | -29470 | -29790 | -30380 | .37000 | .35210 |
| 1.198 | 2.851 | -30330 | -30260 | -30160 | -30070 | -30470 | -30470 | -31060 | -31530 | .38880 | .35980 |
| 1.196 | 5.053 | -31070 | -30980 | -31110 | -31080 | -31560 | -31560 | -31870 | -32310 | .39750 | .35770 |
| 1.197 | 6.078 | -30660 | -30940 | -31430 | -31180 | -31260 | -31260 | -31570 | -31960 | .40780 | .36020 |
| 1.198 | 7.079 | -30970 | -31110 | -31520 | -31300 | -31020 | -31020 | -31130 | -31190 | .41480 | .36220 |
| 1.198 | 8.146 | -31030 | -31200 | -31100 | -31440 | -31630 | -31630 | -31730 | -32250 | .41460 | .36320 |
| 1.198 | 9.235 | -31190 | -31540 | -31540 | -31750 | -31310 | -31310 | -31650 | -31760 | .41950 | .36710 |
| 1.197 | 10.336 | -31730 | -31890 | -31840 | -31650 | -31660 | -31660 | -32150 | -32560 | .43000 | .36850 |
| 1.195 | 11.245 | -31970 | -32090 | -31820 | -32120 | -32450 | -32450 | -32770 | -33130 | .42880 | .36620 |
| 1.195 | 12.262 | -31900 | -31960 | -32110 | -32250 | -32230 | -32230 | -32610 | -32830 | .43100 | .36860 |
| 1.197 | 13.283 | -32760 | -32360 | -32510 | -32500 | -32740 | -32740 | -32990 | -33330 | .43250 | .36710 |
| 1.191 | 15.391 | -34300 | -34410 | -34350 | -34230 | -34210 | -34210 | -34570 | -35400 | .42680 | .36240 |
| GRADIENT | | -00100 | -00072 | -00010 | -00031 | -00344 | -00344 | -00436 | -00395 | .00646 | .00265 |

DATE 10 MAR 80

OAIW5 TABULATED FORCE DATA

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AHES 118-1-11 OAI45A 01

(E2F057) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = -11.700
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 306/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|
| 1.296 | -5.118 | -30690 | -30640 | -30720 | -30540 | -30920 | -30920 | -31050 | -31730 | .36060 | .37940 |
| 1.300 | -.074 | -29970 | -29810 | -29960 | -29960 | -30110 | -30110 | -30540 | -30900 | .38950 | .38900 |
| 1.296 | 2.498 | -30120 | -30040 | -30260 | -30230 | -30550 | -30550 | -30740 | -31240 | .41200 | .38320 |
| 1.294 | 5.076 | -30440 | -30460 | -30500 | -30490 | -31170 | -31170 | -31880 | -32300 | .42580 | .38300 |
| 1.295 | 6.134 | -30320 | -30790 | -30630 | -30320 | -31210 | -31210 | -31740 | -32260 | .43870 | .38450 |
| 1.294 | 7.113 | -31240 | -31450 | -31370 | -31330 | -31760 | -31760 | -32320 | -32910 | .43990 | .38540 |
| 1.295 | 8.165 | -31810 | -31660 | -31530 | -31490 | -32070 | -32070 | -32430 | -33030 | .43860 | .38410 |
| 1.294 | 9.179 | -31870 | -31980 | -32110 | -32360 | -32530 | -32530 | -32900 | -33500 | .44020 | .38280 |
| 1.294 | 10.237 | -32410 | -32640 | -32600 | -32600 | -32980 | -32980 | -33290 | -33890 | .45360 | .38540 |
| 1.294 | 11.256 | -33130 | -33250 | -33260 | -33510 | -33330 | -33330 | -33820 | -34290 | .45600 | .38710 |
| 1.294 | 12.303 | -33680 | -33850 | -33650 | -33910 | -33460 | -33460 | -33850 | -34190 | .45600 | .38820 |
| 1.292 | 13.351 | -34460 | -34420 | -34390 | -34700 | -33940 | -33940 | -34240 | -34600 | .45610 | .39230 |
| 1.290 | 15.414 | -34370 | -34440 | -34470 | -34610 | -33750 | -33750 | -34150 | -34510 | .45900 | .39350 |
| | GRADIENT | -.00058 | -.00089 | -.00117 | -.00105 | -.00171 | -.00171 | -.00078 | -.00132 | .00875 | -.00226 |

RUN NO. 301/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 1.401 | -5.082 | -29720 | -29990 | -29820 | -29990 | -29760 | -29760 | -30080 | -30540 | .39840 | .42030 |
| 1.403 | -.042 | -30390 | -30490 | -30410 | -30370 | -30470 | -30470 | -30530 | -30680 | .44070 | .44040 |
| 1.400 | 2.597 | -31550 | -31400 | -31450 | -31670 | -31480 | -31480 | -31670 | -31970 | .46100 | .45450 |
| 1.400 | 5.039 | -31460 | -31430 | -31340 | -31590 | -31430 | -31430 | -31630 | -31860 | .47660 | .44330 |
| 1.402 | 6.052 | -31910 | -31500 | -31400 | -31640 | -31530 | -31530 | -31660 | -31950 | .49290 | .44910 |
| 1.402 | 7.074 | -31920 | -31910 | -31950 | -32020 | -31490 | -31490 | -31850 | -32180 | .49740 | .46270 |
| 1.401 | 8.104 | -32070 | -32100 | -32040 | -32000 | -31490 | -31490 | -31760 | -32180 | .49040 | .45910 |
| 1.400 | 9.123 | -32000 | -32180 | -32050 | -32210 | -31440 | -31440 | -31440 | -31840 | .49150 | .45680 |
| 1.400 | 10.165 | -32240 | -32440 | -32390 | -32410 | -31350 | -31350 | -31620 | -31900 | .50040 | .45890 |
| 1.399 | 11.191 | -32570 | -32650 | -32670 | -32760 | -31410 | -31410 | -31610 | -31950 | .49900 | .45860 |
| 1.399 | 12.230 | -32890 | -32810 | -32990 | -32930 | -31350 | -31350 | -31560 | -31910 | .50120 | .46220 |
| 1.398 | 13.268 | -33140 | -33220 | -33250 | -33300 | -31220 | -31220 | -31530 | -31910 | .50370 | .46380 |
| 1.393 | 15.334 | -33190 | -33160 | -33300 | -33230 | -30670 | -30670 | -30860 | -31270 | .50400 | .45820 |
| | GRADIENT | -.00440 | -.00345 | -.00394 | -.00493 | -.00383 | -.00383 | -.00432 | -.00489 | .00769 | .00534 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

AMES 118-1-11 0A145A 01

(E2F058) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = 16.300
 SPDRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 298/ 0 RN/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .598 | -5.019 | -21770 | -21890 | -21530 | -21810 | -22670 | -22670 | -23020 | -23040 | -04310 | -03720 |
| .598 | -0.051 | -21510 | -21340 | -21820 | -21460 | -22190 | -22190 | -21740 | -22520 | .07700 | .06930 |
| .597 | 2.496 | -22220 | -22460 | -22320 | -22010 | -23030 | -23030 | -23520 | -24400 | .12020 | .09740 |
| .596 | 5.000 | -22850 | -22110 | -22270 | -22130 | -23860 | -23860 | -24830 | -26660 | .15180 | .13260 |
| .598 | 6.008 | -22000 | -21570 | -21810 | -22000 | -24320 | -24320 | -25120 | -27410 | .16050 | .14150 |
| .597 | 7.047 | -21830 | -21760 | -21860 | -21780 | -25080 | -25080 | -25880 | -28790 | .16870 | .14890 |
| .598 | 8.082 | -21280 | -21870 | -21630 | -21750 | -25170 | -25170 | -26680 | -29060 | .17830 | .15670 |
| .597 | 9.085 | -22580 | -21940 | -21960 | -21770 | -25750 | -25750 | -27920 | -30760 | .17890 | .15350 |
| .597 | 10.121 | -22420 | -22660 | -22540 | -22320 | -26210 | -26210 | -28600 | -31290 | .18680 | .15450 |
| .598 | 11.160 | -22520 | -22400 | -22420 | -22000 | -26800 | -26800 | -29150 | -32430 | .18990 | .15590 |
| .597 | 12.208 | -22690 | -22760 | -23210 | -23420 | -27390 | -27390 | -30230 | -33730 | .18720 | .15430 |
| .597 | 13.160 | -23070 | -24170 | -23430 | -23120 | -29700 | -29700 | -31780 | -34930 | .18170 | .14650 |
| .596 | 15.194 | -24600 | -24690 | -24600 | -24810 | -31860 | -31860 | -34300 | -35320 | .16840 | .12330 |
| | GRADIENT | -00279 | -00440 | -00196 | -00216 | -00330 | -00330 | -00699 | -00738 | .01696 | .01103 |

RUN NO. 292/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .799 | -5.064 | -24400 | -23760 | -23890 | -23840 | -25580 | -25580 | -25400 | -26080 | .01600 | .01850 |
| .800 | -0.044 | -23460 | -23030 | -23270 | -23200 | -24380 | -24380 | -24550 | -24750 | .12650 | .11280 |
| .797 | 2.462 | -23980 | -23560 | -23420 | -23390 | -25190 | -25190 | -26080 | -26630 | .16340 | .13600 |
| .797 | 4.978 | -23280 | -22920 | -23560 | -23180 | -25330 | -25330 | -26640 | -27970 | .19460 | .17070 |
| .798 | 6.012 | -23650 | -23410 | -23800 | -23410 | -26970 | -26970 | -27880 | -29480 | .20230 | .17330 |
| .799 | 7.029 | -22730 | -23250 | -22700 | -22960 | -26920 | -26920 | -28670 | -30310 | .21700 | .18710 |
| .799 | 8.082 | -23100 | -23320 | -23120 | -23230 | -27690 | -27690 | -28670 | -31110 | .22290 | .19530 |
| .799 | 9.116 | -23060 | -22930 | -23210 | -23210 | -29350 | -29350 | -29940 | -30970 | .22650 | .19370 |
| .799 | 10.118 | -22860 | -24100 | -24250 | -24230 | -30620 | -30620 | -31690 | -32280 | .23220 | .19540 |
| .800 | 11.150 | -24310 | -23550 | -23690 | -25290 | -32670 | -32670 | -32250 | -33130 | .23740 | .19300 |
| .799 | 12.186 | -24240 | -24060 | -23580 | -24170 | -33980 | -33980 | -34410 | -34340 | .24060 | .19570 |
| .799 | 13.204 | -25990 | -26120 | -26180 | -27040 | -36110 | -36110 | -37480 | -38470 | .22910 | .18990 |
| .796 | 15.250 | -28800 | -28800 | -28690 | -28990 | -39010 | -39010 | -39440 | -40630 | .21990 | .17220 |
| .797 | GRADIENT | .00036 | .00022 | -00058 | .00004 | -00189 | -00189 | -00416 | -00641 | .01356 | .01153 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

PAGE 1773
(E2F058) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6300 IN. XO
LREF = 474.8100 INCHES YMRP = 0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BOFLAP = 16.300
SPDRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 289/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|---------|--------|---------|---------|---------|---------|---------|--------|--------|
| .901 | -5.072 | -25670 | -25250 | -25390 | -25710 | -28010 | -28010 | -28610 | -28510 | .08290 | .08530 |
| .901 | -.099 | -24570 | -24890 | -24380 | -24410 | -27080 | -27080 | -27920 | -28840 | .17630 | .16130 |
| .899 | 2.472 | -24480 | -25040 | -24160 | -24800 | -28790 | -28790 | -29770 | -30110 | .21610 | .18490 |
| .897 | 5.009 | -24600 | -25250 | -24790 | -24430 | -32200 | -32200 | -32890 | -33530 | .23760 | .20940 |
| .899 | 6.039 | -24940 | -24990 | -25720 | -24720 | -31890 | -31890 | -32850 | -33200 | .24990 | .21900 |
| .899 | 7.084 | -25430 | -25670 | -25720 | -25120 | -32450 | -32450 | -32610 | -33930 | .26180 | .22610 |
| .900 | 8.095 | -25620 | -24690 | -25160 | -25260 | -33070 | -33070 | -33700 | -34030 | .27010 | .23700 |
| .896 | 9.111 | -25440 | -27440 | -27010 | -26380 | -35000 | -35000 | -34750 | -34630 | .26990 | .23080 |
| .898 | 10.162 | -26630 | -25510 | -26390 | -26360 | -34800 | -34800 | -35000 | -36100 | .27630 | .23640 |
| .900 | 11.171 | -26000 | -25550 | -26370 | -25640 | -34180 | -34180 | -35310 | -36090 | .28550 | .24650 |
| .898 | 12.173 | -26090 | -26750 | -26720 | -27160 | -36720 | -36720 | -37390 | -37510 | .28410 | .24060 |
| .898 | 13.216 | -29130 | -28210 | -28450 | -28240 | -38750 | -38750 | -39090 | -40170 | .28200 | .23770 |
| .899 | 15.293 | -31750 | -31840 | -31140 | -30750 | -42720 | -42720 | -43290 | -44490 | .27810 | .22580 |
| | GRADIENT | .00035 | -.00058 | .00086 | -.00152 | -.00665 | -.00665 | -.00719 | -.00494 | .01548 | .00918 |

RUN NO. 284/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|
| .947 | -5.067 | -30210 | -29770 | -29630 | -29870 | -40880 | -40880 | -41420 | -42860 | .12850 | .13030 |
| .950 | -.049 | -30000 | -29520 | -29200 | -29450 | -37710 | -37710 | -38350 | -39280 | .21530 | .19860 |
| .954 | 2.490 | -29850 | -29560 | -29850 | -29760 | -37150 | -37150 | -38160 | -38940 | .25260 | .22190 |
| .953 | 5.028 | -27960 | -28310 | -27370 | -27520 | -34490 | -34490 | -34590 | -35680 | .27610 | .24780 |
| .949 | 6.048 | -27540 | -27600 | -27090 | -27590 | -36220 | -36220 | -37470 | -38240 | .28530 | .25400 |
| .950 | 7.068 | -26770 | -26520 | -26470 | -26790 | -34530 | -34530 | -35350 | -35250 | .29720 | .25850 |
| .948 | 8.068 | -26990 | -27000 | -27080 | -27330 | -34550 | -34550 | -35370 | -36260 | .29810 | .26510 |
| .947 | 9.129 | -27430 | -27430 | -27550 | -27760 | -35380 | -35380 | -35770 | -36760 | .30200 | .26650 |
| .947 | 10.186 | -26790 | -27290 | -26660 | -27510 | -37540 | -37540 | -37510 | -37870 | .30700 | .26380 |
| .947 | 11.167 | -28400 | -28620 | -28780 | -28830 | -37970 | -37970 | -38970 | -38350 | .30830 | .26560 |
| .949 | 12.201 | -28690 | -29240 | -29250 | -29550 | -37640 | -37640 | -38680 | -39260 | .31680 | .27300 |
| .949 | 13.233 | -29540 | -29590 | -29110 | -30560 | -39660 | -39660 | -39970 | -40990 | .31380 | .26620 |
| .951 | 15.300 | -32380 | -32190 | -32340 | -32340 | -41100 | -41100 | -41920 | -42760 | .31230 | .26380 |
| | GRADIENT | .00059 | -.00016 | -.00256 | -.00122 | .00221 | .00221 | .00075 | .00134 | .01469 | .00918 |

OAI145 TABULATED FORCE DATA
AMES 118-1-11 OAI145A 01

DATE 10 MAR 80

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BOFLAP = 16.300
SPBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 316/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.103 | -5.098 | -32620 | -32590 | -32570 | -33020 | -33180 | -33180 | -33370 | -34100 | .28350 | .29420 |
| 1.107 | -.091 | -32210 | -31970 | -31830 | -31990 | -32250 | -32250 | -32600 | -33230 | .34270 | .33190 |
| 1.096 | 2.766 | -33890 | -33930 | -34080 | -34330 | -34060 | -34060 | -34910 | -35350 | .37060 | .34590 |
| 1.095 | 5.030 | -36130 | -36100 | -36220 | -36350 | -36650 | -36650 | -37570 | -38020 | .38440 | .35670 |
| 1.099 | 6.091 | -35920 | -35850 | -36190 | -36390 | -36020 | -36020 | -36520 | -37000 | .39420 | .36270 |
| 1.098 | 7.179 | -37100 | -36820 | -37030 | -37260 | -36590 | -36590 | -36460 | -36720 | .39860 | .36600 |
| 1.097 | 8.147 | -37670 | -37520 | -37560 | -37640 | -37100 | -37100 | -37670 | -37790 | .39860 | .37050 |
| 1.097 | 9.172 | -38100 | -38390 | -38060 | -38250 | -37810 | -37810 | -38070 | -38730 | .40520 | .37570 |
| 1.093 | 10.203 | -38980 | -38830 | -38790 | -38490 | -39020 | -39020 | -39390 | -39840 | .40520 | .36800 |
| 1.098 | 11.262 | -39580 | -38070 | -37950 | -37930 | -39110 | -39110 | -39280 | -39900 | .41360 | .36970 |
| 1.098 | 12.315 | -39360 | -39410 | -39160 | -38890 | -39560 | -39560 | -40110 | -40520 | .41270 | .36550 |
| 1.096 | 13.381 | -39450 | -39550 | -39150 | -39700 | -40160 | -40160 | -40490 | -40900 | .41680 | .36070 |
| 1.092 | 15.350 | -42220 | -42180 | -42620 | -42500 | -42720 | -42720 | -43120 | -44220 | .40570 | .00490 |
| | GRADIENT | -00588 | -00686 | -00788 | -00819 | -00634 | -00634 | -00809 | -00742 | .00977 | |

RUN NO. 313/ 0 RN/L = 5.16 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.201 | -5.068 | -31830 | -31930 | -31970 | -31900 | -30140 | -30140 | -30580 | -30960 | .32300 | .34150 |
| 1.203 | -.038 | -31050 | -31170 | -31130 | -31150 | -29980 | -29980 | -30260 | -30840 | .37240 | .35450 |
| 1.200 | 2.513 | -32360 | -32260 | -32230 | -32260 | -32000 | -32000 | -32500 | -33060 | .38750 | .35750 |
| 1.198 | 5.052 | -34170 | -34210 | -34030 | -34310 | -34070 | -34070 | -34560 | -35090 | .39850 | .35810 |
| 1.197 | 6.059 | -34660 | -34660 | -34370 | -34760 | -34140 | -34140 | -34250 | -34620 | .40750 | .36020 |
| 1.197 | 7.102 | -35070 | -34920 | -34910 | -34760 | -34180 | -34180 | -34520 | -34980 | .41480 | .36050 |
| 1.198 | 8.130 | -35410 | -35450 | -35570 | -35450 | -34250 | -34250 | -34550 | -34690 | .41480 | .36380 |
| 1.195 | 9.159 | -35610 | -35370 | -35760 | -35750 | -34280 | -34280 | -34650 | -35250 | .41600 | .36460 |
| 1.197 | 10.250 | -34390 | -34290 | -34420 | -34230 | -33820 | -33820 | -34260 | -34930 | .42990 | .36940 |
| 1.199 | 11.322 | -34020 | -33820 | -33810 | -33820 | -33530 | -33530 | -33640 | -34030 | .43360 | .37200 |
| 1.194 | 12.440 | -34710 | -34640 | -34520 | -33510 | -34730 | -34730 | -34660 | -34840 | .42790 | .36360 |
| 1.197 | 13.320 | -33960 | -34120 | -33700 | -33540 | -33540 | -33540 | -33370 | -34300 | .43250 | .36850 |
| 1.197 | 15.345 | -35950 | -35950 | -35960 | -36010 | -34990 | -34990 | -35490 | -35650 | .42820 | .36280 |
| 1.192 | GRADIENT | -00513 | -00427 | -00431 | -00435 | -00792 | -00792 | -00878 | -00870 | .00592 | .00118 |

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OAI45 TABULATED FORCE DATA
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(E2F058) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

BETA =
 AILRON =
 SPOBRK =
 RN/L =

ELEVON = .000
 BDFLAP = 16.300
 RUDDER = .000

PARAMETRIC DATA

RUN NO. 307/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.299 | -5.093 | -29560 | -29610 | -29440 | -29730 | -29850 | -29850 | -30270 | -30960 | -36190 | -38120 |
| 1.299 | -.042 | -29130 | -29340 | -29290 | -29410 | -29710 | -29710 | -29960 | -30560 | -36880 | -38830 |
| 1.295 | 2.532 | -30160 | -30160 | -29900 | -29920 | -30530 | -30530 | -31040 | -31440 | -41190 | -38480 |
| 1.293 | 5.066 | -32250 | -32450 | -32660 | -32460 | -32610 | -32610 | -33120 | -33790 | -42310 | -38100 |
| 1.294 | 6.082 | -32890 | -32800 | -32640 | -32930 | -33010 | -33010 | -33520 | -34120 | -43930 | -38370 |
| 1.294 | 7.142 | -33840 | -33980 | -33980 | -33800 | -34270 | -34270 | -34560 | -35110 | -43890 | -38430 |
| 1.294 | 8.128 | -34560 | -34560 | -34560 | -34800 | -34850 | -34850 | -35130 | -35660 | -43790 | -38180 |
| 1.294 | 9.137 | -34750 | -34960 | -34950 | -34950 | -34900 | -34900 | -35380 | -35610 | -43990 | -38290 |
| 1.294 | 10.240 | -35230 | -35340 | -35150 | -35110 | -35130 | -35130 | -35440 | -35830 | -45220 | -38410 |
| 1.293 | 11.234 | -35610 | -35730 | -35780 | -35920 | -35410 | -35410 | -35500 | -35970 | -45580 | -38670 |
| 1.293 | 12.279 | -36210 | -36060 | -35860 | -36020 | -35110 | -35110 | -35340 | -35600 | -45610 | -38710 |
| 1.292 | 13.354 | -36760 | -36810 | -36610 | -36840 | -36230 | -36230 | -35460 | -35850 | -45630 | -39320 |
| 1.288 | 15.409 | -37470 | -37510 | -37560 | -37510 | -36670 | -36670 | -35980 | -36300 | -45770 | -39300 |
| | GRADIENT | -00400 | -00319 | -00237 | -00198 | -00319 | -00319 | -00420 | -00342 | -00897 | -00136 |

RUN NO. 302/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.402 | -5.071 | -29800 | -29820 | -29790 | -29780 | -29800 | -29800 | -30100 | -30440 | -39850 | -41860 |
| 1.403 | -.039 | -31310 | -31380 | -31310 | -31250 | -31100 | -31100 | -31230 | -31540 | -44160 | -44240 |
| 1.400 | 2.490 | -32030 | -31920 | -31930 | -31920 | -31790 | -31790 | -32000 | -32190 | -46250 | -45590 |
| 1.398 | 5.030 | -32370 | -32350 | -32370 | -32250 | -32070 | -32070 | -32300 | -32890 | -47770 | -44360 |
| 1.400 | 6.066 | -32480 | -32690 | -32650 | -32480 | -32190 | -32190 | -32340 | -32730 | -49580 | -45220 |
| 1.400 | 7.067 | -33450 | -33400 | -33480 | -33410 | -32620 | -32620 | -32770 | -33220 | -49660 | -44900 |
| 1.399 | 8.113 | -33760 | -33880 | -33780 | -33660 | -32820 | -32820 | -33020 | -33330 | -49000 | -44990 |
| 1.398 | 9.153 | -34100 | -33940 | -33940 | -33940 | -32740 | -32740 | -32830 | -33150 | -49260 | -44870 |
| 1.399 | 10.176 | -34000 | -34080 | -34020 | -34230 | -32610 | -32610 | -32770 | -33070 | -50280 | -45280 |
| 1.397 | 11.212 | -34450 | -34400 | -34400 | -34230 | -32740 | -32740 | -32840 | -33190 | -50330 | -45760 |
| 1.396 | 12.266 | -34670 | -34780 | -34700 | -34660 | -32770 | -32770 | -32860 | -33080 | -50190 | -45960 |
| 1.392 | 13.306 | -34910 | -34920 | -34920 | -34660 | -32660 | -32660 | -32790 | -33070 | -50390 | -46100 |
| 1.387 | 15.338 | -35520 | -35680 | -35690 | -35430 | -32440 | -32440 | -32480 | -32660 | -50380 | -45480 |
| | GRADIENT | -00285 | -00214 | -00245 | -00255 | -00273 | -00273 | -00304 | -00257 | -00826 | -00534 |

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(E2F059) (16 JUL 77)

REFERENCE DATA

| | | | | | | |
|---|-----------|--------|------|---|-----------|--------|
| = | 2690.0000 | 50.FT. | XMRP | = | 1076.6800 | IN. ZO |
| = | 474.8100 | INCHES | YMRP | = | .0000 | IN. ZO |
| = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. ZO |
| = | .0500 | | | | | |

PARAMETRIC DATA

| | | | | | |
|--------|---|--------|--------|---|--------|
| BETA | = | .000 | ELEVON | = | .000 |
| AILRON | = | .000 | BDFLAP | = | 22.500 |
| SPOBRK | = | 25.000 | RUDDER | = | .000 |
| RN/L | = | 5.000 | | | |

| | | | |
|---------|--------|-------------|---------------------------------|
| RUN NO. | 299/ 0 | RN/L = 4.93 | GRADIENT INTERVAL = -5.00/ 5.00 |
|---------|--------|-------------|---------------------------------|

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .598 | -5.030 | -23720 | -24140 | -24020 | -23810 | -23920 | -23920 | -24320 | -24770 | -.04510 | -.03510 |
| .598 | .067 | -23650 | -23670 | -23460 | -23600 | -23250 | -23290 | -23460 | -23620 | .07610 | .06910 |
| .597 | 2.488 | -23940 | -23920 | -24110 | -24230 | -24230 | -24230 | -24980 | -25790 | .12990 | .10070 |
| .595 | 4.999 | -24540 | -24500 | -25020 | -25050 | -25020 | -25020 | -26350 | -28460 | .15150 | .13720 |
| .597 | 5.937 | -24560 | -24480 | -24580 | -24150 | -25790 | -25790 | -26940 | -29430 | .16120 | .14280 |
| .597 | 7.038 | -25110 | -24960 | -24560 | -24350 | -26240 | -26240 | -27960 | -29830 | .17540 | .15170 |
| .598 | 8.067 | -23520 | -23520 | -24160 | -23950 | -26620 | -26620 | -27610 | -30660 | .17590 | .15580 |
| .598 | 9.073 | -23810 | -23620 | -23950 | -23910 | -26790 | -26790 | -28230 | -31530 | .18380 | .15720 |
| .597 | 10.111 | -24190 | -24170 | -24830 | -24380 | -26980 | -26980 | -29030 | -32480 | .18430 | .15590 |
| .597 | 11.121 | -24700 | -24390 | -24220 | -24180 | -28010 | -28010 | -30350 | -34320 | .18430 | .15320 |
| .597 | 12.152 | -24950 | -24400 | -24690 | -24970 | -29090 | -29090 | -31140 | -35070 | .18230 | .15000 |
| .597 | 13.162 | -25190 | -24950 | -25040 | -25380 | -30980 | -30980 | -33080 | -34670 | .17950 | .14430 |
| .597 | 15.210 | -26160 | -25950 | -25950 | -26180 | -33110 | -33110 | -34080 | -35100 | .16390 | .11840 |
| GRADIENT | | -.00176 | -.00164 | -.00309 | -.00287 | -.00342 | -.00342 | -.00572 | -.00957 | .01492 | .01346 |

| | | | | | |
|---------|--------|--------|------|---------------------|-------------|
| RUN NO. | 293/ 0 | RN/L = | 4.94 | GRADIENT INTERVAL = | -5.00/ 5.00 |
|---------|--------|--------|------|---------------------|-------------|

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| .799 | -5.060 | -25830 | -26070 | -25730 | -25830 | -26360 | -26360 | -26800 | -27220 | .01650 | .02160 |
| .801 | -0.085 | -25260 | -25920 | -25370 | -25290 | -26240 | -26240 | -26540 | -26610 | .12450 | .11100 |
| .799 | 2.448 | -25880 | -26610 | -26140 | -26610 | -26540 | -26540 | -27660 | -27660 | .16650 | .13830 |
| .796 | 4.974 | -25796 | -26320 | -26320 | -26320 | -27740 | -27740 | -28540 | -29110 | .19080 | .16430 |
| .798 | 6.014 | -25880 | -25970 | -25580 | -26230 | -27480 | -27480 | -29170 | -30180 | .20260 | .17830 |
| .800 | 7.023 | -25450 | -25300 | -25970 | -26010 | -28410 | -28410 | -29660 | -31000 | .21910 | .18490 |
| .799 | 8.078 | -26280 | -25820 | -25880 | -25730 | -29460 | -29460 | -30980 | -31430 | .22300 | .19350 |
| .800 | 9.113 | -25430 | -26250 | -25590 | -25340 | -30790 | -30790 | -30330 | -32220 | .22300 | .19520 |
| .797 | 10.111 | -26180 | -26050 | -26480 | -26580 | -31340 | -31340 | -32670 | -33350 | .23060 | .19660 |
| .799 | 11.158 | -26530 | -25750 | -26400 | -26160 | -31820 | -31820 | -32480 | -33600 | .23790 | .20350 |
| .797 | 12.158 | -27430 | -28120 | -27820 | -27760 | -35070 | -35070 | -35770 | -35200 | .22970 | .19330 |
| .798 | 13.200 | -28030 | -27620 | -27300 | -27700 | -35830 | -35830 | -36110 | -35200 | .23610 | .19530 |
| .800 | 15.245 | -29180 | -29030 | -29960 | -30090 | -38150 | -38150 | -40320 | -40220 | .23010 | .18110 |
| GRADIENT | -0.0099 | -0.0067 | -0.0057 | -0.0188 | -0.0286 | -0.0298 | -0.0298 | -0.0522 | -0.0496 | .01314 | .01058 |

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OAI45 TABULATED FORCE DATA

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(E2F059) (16 JUL 77)

AHES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = 22.500
 SPDRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 290/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|--------|
| .901 | -5.069 | -28060 | -27940 | -28040 | -27380 | -28790 | -28790 | -28700 | -29020 | .08610 | .08740 |
| .900 | -.082 | -28040 | -28230 | -28410 | -27510 | -28950 | -28950 | -29850 | -29640 | .17610 | .15980 |
| .898 | 2.489 | -28280 | -28530 | -28750 | -27850 | -30570 | -30570 | -30200 | -31350 | .21320 | .18200 |
| .901 | 5.002 | -27880 | -28450 | -28370 | -28490 | -33580 | -33580 | -34490 | -34350 | .23890 | .21020 |
| .897 | 6.008 | -28100 | -28630 | -29060 | -28650 | -33780 | -33780 | -34000 | -33810 | .24690 | .21380 |
| .900 | 7.057 | -28470 | -28340 | -28290 | -28530 | -34130 | -34130 | -34040 | -34250 | .26300 | .22410 |
| .898 | 8.069 | -28510 | -28740 | -28860 | -29430 | -34520 | -34520 | -35220 | -35140 | .26480 | .23400 |
| .898 | 9.138 | -29460 | -29200 | -29540 | -28740 | -35510 | -35510 | -36100 | -37070 | .26820 | .24230 |
| .897 | 10.130 | -28900 | -28540 | -28280 | -29100 | -34640 | -34640 | -35200 | -36430 | .28210 | .24230 |
| .896 | 11.160 | -29910 | -30130 | -28940 | -28220 | -37390 | -37390 | -38160 | -37630 | .27600 | .23410 |
| .899 | 12.185 | -28930 | -29460 | -28960 | -28550 | -37600 | -37600 | -38560 | -38830 | .28390 | .24210 |
| .897 | 13.204 | -29660 | -29870 | -29800 | -29800 | -40020 | -40020 | -39940 | -41040 | .28100 | .23450 |
| .901 | 15.284 | -32380 | -32920 | -32580 | -32630 | -42800 | -42800 | -43430 | -43780 | .27870 | .22810 |
| GRADIENT | | -.0093 | -.0017 | .00218 | -.00132 | -.00630 | -.00630 | -.00136 | -.00665 | .01443 | .00863 |

RUN NO. 285/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
| .951 | -5.062 | -30300 | -30880 | -30700 | -30850 | -40710 | -40710 | -40790 | -41540 | .13210 | .13540 |
| .953 | -.046 | -31620 | -31690 | -31820 | -31280 | -37510 | -37510 | -38490 | -39470 | .22010 | .20360 |
| .950 | 2.487 | -32330 | -32790 | -32570 | -32190 | -37830 | -37830 | -38550 | -39230 | .24950 | .21880 |
| .953 | 5.047 | -31610 | -32100 | -30900 | -31580 | -36910 | -36910 | -37430 | -38000 | .27670 | .24680 |
| .952 | 6.020 | -31320 | -30840 | -31020 | -30480 | -37790 | -37790 | -37640 | -39130 | .28510 | .24990 |
| .948 | 7.062 | -31240 | -31210 | -32170 | -31740 | -38480 | -38480 | -38410 | -36990 | .29370 | .25460 |
| .954 | 8.076 | -31790 | -31890 | -32170 | -31990 | -36280 | -36280 | -36340 | -37430 | .29720 | .26440 |
| .954 | 10.179 | -31260 | -30810 | -29650 | -30760 | -36180 | -36180 | -37920 | -38240 | .31120 | .26940 |
| .950 | 11.198 | -31050 | -31480 | -31180 | -32350 | -38590 | -38590 | -39320 | -39800 | .31200 | .27060 |
| .950 | 12.210 | -30360 | -31190 | -31070 | -30360 | -39490 | -39490 | -39150 | -39970 | .31660 | .26970 |
| .952 | 13.225 | -31620 | -31920 | -31410 | -31880 | -39930 | -39930 | -40810 | -41450 | .31800 | .27030 |
| .951 | 15.298 | -34260 | -34720 | -34220 | -34270 | -43100 | -43100 | -43750 | -43950 | .31110 | .26230 |
| GRADIENT | | -.00280 | -.00434 | -.00296 | -.00359 | -.00126 | -.00126 | -.00024 | .00095 | .01161 | .00600 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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(E2F059) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDELAP = 22.500
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 317/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|
| 1.103 | -5.140 | -34880 | -34780 | -34970 | -34780 | -34740 | -34740 | -35090 | -35650 | 28360 | 29550 |
| 1.107 | -0.050 | -34910 | -34730 | -34810 | -34510 | -34180 | -34180 | -34330 | -34940 | 34090 | 33200 |
| 1.095 | 2.518 | -36410 | -36500 | -36590 | -36520 | -35950 | -35950 | -36450 | -36990 | 36320 | 34270 |
| 1.094 | 5.049 | -38460 | -38800 | -38700 | -38840 | -38070 | -38070 | -38950 | -39260 | 38270 | 36040 |
| 1.098 | 6.069 | -38570 | -38100 | -38530 | -38450 | -37750 | -37750 | -38170 | -37840 | 38970 | 35960 |
| 1.098 | 7.146 | -38940 | -39260 | -39100 | -39110 | -37400 | -37400 | -37270 | -37370 | 40170 | 36210 |
| 1.097 | 8.122 | -40100 | -39790 | -40180 | -40440 | -38480 | -38480 | -38510 | -38530 | 39950 | 36930 |
| 1.097 | 9.137 | -40560 | -40600 | -40770 | -40720 | -39060 | -39060 | -38960 | -39510 | 40300 | 37440 |
| 1.095 | 10.242 | -40780 | -40530 | -40750 | -40600 | -40610 | -40610 | -41050 | -40800 | 41230 | 36860 |
| 1.096 | 11.215 | -41010 | -41150 | -41350 | -41300 | -41360 | -41360 | -41440 | -41830 | 41010 | 36630 |
| 1.097 | 12.258 | -41830 | -41790 | -41740 | -41760 | -41600 | -41600 | -42380 | -42570 | 41920 | 37220 |
| 1.098 | 13.284 | -42080 | -42320 | -42170 | -42760 | -42240 | -42240 | -42590 | -42880 | 41730 | 36690 |
| 1.092 | 15.358 | -45100 | -44320 | -44660 | -44810 | -44420 | -44420 | -44980 | -45450 | 41420 | 36500 |
| | GRADIENT | -0.005134 | -0.00689 | -0.00693 | -0.00783 | -0.00689 | -0.00689 | -0.00826 | -0.00798 | 0.00869 | 0.00417 |

RUN NO. 311/ 0 RN/L = 5.06 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|
| 1.202 | -5.109 | -32930 | -33040 | -33020 | -33040 | -30800 | -30800 | -31090 | -31540 | 32440 | 34450 |
| 1.207 | -0.018 | -31880 | -31920 | -31910 | -32030 | -30470 | -30470 | -30820 | -31340 | 37670 | 35700 |
| 1.199 | 2.494 | -34120 | -34100 | -34070 | -34120 | -33300 | -33300 | -33720 | -34360 | 38900 | 35780 |
| 1.195 | 5.038 | -36010 | -36140 | -36110 | -35990 | -35520 | -35520 | -35860 | -36330 | 39800 | 35730 |
| 1.197 | 6.068 | -36240 | -36280 | -36340 | -36400 | -35860 | -35860 | -36220 | -36450 | 40710 | 36020 |
| 1.201 | 7.131 | -36330 | -36390 | -36040 | -36000 | -35510 | -35510 | -35880 | -36290 | 41900 | 36450 |
| 1.199 | 8.155 | -36890 | -37050 | -37230 | -36980 | -35920 | -35920 | -36310 | -36350 | 41760 | 36730 |
| 1.197 | 9.187 | -37040 | -36780 | -37010 | -37130 | -35680 | -35680 | -36350 | -36980 | 41970 | 36840 |
| 1.198 | 10.198 | -36780 | -37000 | -37150 | -36670 | -36190 | -36190 | -36140 | -35930 | 42880 | 36710 |
| 1.200 | 11.226 | -35980 | -35490 | -35870 | -35560 | -34880 | -34880 | -35140 | -35440 | 43510 | 37230 |
| 1.197 | 12.301 | -36470 | -36050 | -36450 | -36470 | -35650 | -35650 | -35430 | -36040 | 43310 | 36810 |
| 1.196 | 13.302 | -36770 | -36410 | -36630 | -36810 | -34920 | -34920 | -35800 | -36200 | 43320 | 36830 |
| 1.194 | 15.433 | -38000 | -37930 | -37830 | -38000 | -36290 | -36290 | -36550 | -36780 | 43020 | 36460 |
| | GRADIENT | -0.00892 | -0.00868 | -0.00860 | -0.00832 | -0.01127 | -0.01127 | -0.01155 | -0.01202 | 0.00490 | 0.00032 |

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OAI45 TABULATED FORCE DATA

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(E2F059) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = 22.500
 SPDRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 308/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 1.298 | -5.083 | -30580 | -30600 | -30660 | -30680 | -30980 | -30980 | -31250 | -31710 | .36190 | .38100 |
| 1.305 | -.037 | -30640 | -30580 | -30390 | -30670 | -30540 | -30540 | -30840 | -31090 | .39310 | .39410 |
| 1.297 | 2.522 | -31810 | -31940 | -31830 | -31520 | -31740 | -31740 | -31950 | -32700 | .41420 | .39340 |
| 1.293 | 5.089 | -34340 | -34400 | -34440 | -34360 | -34120 | -34120 | -34600 | -35010 | .42540 | .38230 |
| 1.294 | 6.101 | -35150 | -35240 | -35200 | -35060 | -35020 | -35020 | -35470 | -36020 | .43690 | .38180 |
| 1.294 | 7.159 | -35750 | -35780 | -35860 | -35850 | -35570 | -35570 | -35900 | -36250 | .43860 | .38460 |
| 1.295 | 8.166 | -35840 | -35870 | -35880 | -36000 | -35570 | -35570 | -35810 | -36390 | .43900 | .38260 |
| 1.294 | 9.156 | -35830 | -35620 | -35820 | -36160 | -35670 | -35670 | -35970 | -36490 | .44250 | .38350 |
| 1.294 | 10.218 | -36050 | -36240 | -36360 | -36240 | -35990 | -35990 | -36050 | -36430 | .45030 | .38370 |
| 1.293 | 11.275 | -36780 | -36670 | -36870 | -37010 | -36120 | -36120 | -36550 | -36970 | .45510 | .38630 |
| 1.293 | 12.316 | -37300 | -37140 | -37220 | -37350 | -35510 | -35510 | -35850 | -36150 | .45820 | .38940 |
| 1.293 | 13.324 | -37650 | -37690 | -37710 | -37820 | -35780 | -35780 | -36050 | -36380 | .45670 | .39280 |
| 1.291 | 15.371 | -38440 | -38600 | -38490 | -38640 | -36240 | -36240 | -36590 | -36990 | .45830 | .39330 |
| | GRADIENT | -00457 | -00532 | -00563 | -00332 | -00469 | -00469 | -00434 | -00629 | .00825 | -.00027 |

RUN NO. 303/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.404 | -5.086 | -30290 | -30410 | -30460 | -30450 | -30300 | -30300 | -30490 | -30930 | .39830 | .42470 |
| 1.409 | -.045 | -31500 | -31520 | -31600 | -31540 | -31200 | -31200 | -31280 | -31420 | .44390 | .44260 |
| 1.403 | 2.526 | -32500 | -32520 | -32500 | -32440 | -32290 | -32290 | -32370 | -32550 | .46200 | .45810 |
| 1.400 | 5.035 | -33580 | -33490 | -33460 | -33510 | -32940 | -32940 | -33220 | -33490 | .47950 | .44490 |
| 1.400 | 6.034 | -34300 | -34320 | -34140 | -34320 | -33510 | -33510 | -33690 | -33920 | .49550 | .44910 |
| 1.400 | 7.176 | -34380 | -34560 | -34640 | -34650 | -33500 | -33500 | -33730 | -33900 | .50100 | .46560 |
| 1.400 | 8.114 | -34610 | -34700 | -34570 | -34620 | -33490 | -33490 | -33620 | -33840 | .49200 | .45220 |
| 1.399 | 9.154 | -34370 | -34530 | -34490 | -34490 | -33070 | -33070 | -33210 | -33470 | .49550 | .44960 |
| 1.398 | 10.154 | -34690 | -34820 | -34740 | -34890 | -33150 | -33150 | -33230 | -33580 | .50360 | .45230 |
| 1.397 | 11.202 | -34750 | -34960 | -34970 | -35000 | -33010 | -33010 | -33220 | -33590 | .50110 | .45710 |
| 1.393 | 12.303 | -35420 | -35340 | -35430 | -35500 | -33110 | -33110 | -33300 | -33660 | .50260 | .45730 |
| 1.392 | 13.296 | -35190 | -35400 | -35390 | -35360 | -32930 | -32930 | -33090 | -33360 | .50440 | .45980 |
| 1.386 | 15.336 | -36040 | -36160 | -36310 | -36310 | -32710 | -32710 | -33010 | -33640 | .50640 | .45570 |
| | GRADIENT | -00389 | -00389 | -00350 | -00350 | -00424 | -00424 | -00424 | -00440 | .00704 | .00603 |

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AMES 118-1-11 OAI45A 01

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELEVON = .000 AILRON = .000
SPOBRK = 25.000 RUDDER = .000
RN/L = 5.000

REFERENCE DATA

SREF = 2690.000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.5800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

RUN NO. 296/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BOFLAP | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| .598 | -11.642 | -22650 | -22730 | -22680 | -22510 | -24800 | -24800 | -25270 | -26970 | .15010 | .13030 |
| .599 | -7.950 | -21990 | -21350 | -21660 | -21470 | -23720 | -23720 | -24350 | -26320 | .15110 | .13410 |
| .599 | -5.940 | -21130 | -21340 | -21130 | -21230 | -23430 | -23430 | -24540 | -26330 | .15120 | .13520 |
| .599 | -3.931 | -20840 | -20550 | -20980 | -20720 | -23180 | -23180 | -23650 | -25740 | .15110 | .13430 |
| .599 | -1.950 | -20390 | -20460 | -20340 | -20650 | -22950 | -22950 | -23890 | -26070 | .15110 | .13490 |
| .599 | .020 | -20560 | -20160 | -20590 | -20470 | -22970 | -22970 | -24240 | -25460 | .15190 | .13360 |
| .599 | 1.990 | -20570 | -20310 | -20450 | -20710 | -23070 | -23070 | -23750 | -25680 | .15290 | .13320 |
| .599 | 4.020 | -20570 | -20210 | -20620 | -20690 | -23060 | -23060 | -23600 | -25570 | .15390 | .13540 |
| .599 | 5.980 | -20210 | -20490 | -20440 | -20250 | -22790 | -22790 | -23660 | -25310 | .15390 | .13200 |
| .599 | 7.970 | -20470 | -20660 | -20850 | -20690 | -23270 | -23270 | -23910 | -25270 | .15230 | .13530 |
| .598 | 12.030 | -20830 | -20780 | -21060 | -20660 | -23020 | -23020 | -23920 | -25940 | .15250 | .13290 |
| .598 | 16.311 | -22070 | -21770 | -21880 | -22500 | -24030 | -24030 | -24740 | -26410 | .15320 | .13370 |
| .598 | 22.505 | -24810 | -24450 | -24140 | -24360 | -25870 | -25870 | -26530 | -28110 | .15090 | .13290 |
| GRADIENT | | .00018 | .00042 | .00031 | .00000 | .00006 | .00006 | .00012 | .00037 | .00017 | -.00020 |

RUN NO. 294/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BOFLAP | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|---------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| .800 | -11.662 | -22750 | -22770 | -22550 | -22770 | -25860 | -25860 | -26750 | -28700 | .19340 | .17080 |
| .800 | -7.950 | -21960 | -21480 | -22000 | -22150 | -25540 | -25540 | -26310 | -27960 | .19550 | .16850 |
| .800 | -5.930 | -21720 | -21800 | -21310 | -21650 | -24790 | -24790 | -26590 | -27570 | .19630 | .17180 |
| .800 | -3.940 | -21160 | -21240 | -20810 | -21290 | -24970 | -24970 | -25630 | -27700 | .19520 | .17030 |
| .799 | -1.970 | -21230 | -21410 | -21380 | -21730 | -25280 | -25280 | -26050 | -27690 | .19380 | .16670 |
| .800 | .010 | -20990 | -20860 | -20940 | -20880 | -24630 | -24630 | -25670 | -27260 | .19370 | .17040 |
| .799 | 1.990 | -20460 | -21280 | -20720 | -20760 | -24690 | -24690 | -25870 | -27520 | .19520 | .16910 |
| .800 | 4.000 | -20550 | -20360 | -20860 | -20400 | -24410 | -24410 | -25030 | -26590 | .19440 | .17080 |
| .800 | 6.010 | -20800 | -21120 | -20710 | -20950 | -24270 | -24270 | -25600 | -27360 | .19570 | .17120 |
| .800 | 7.960 | -21380 | -21190 | -20860 | -21170 | -24540 | -24540 | -25810 | -27130 | .19510 | .16920 |
| .799 | 12.019 | -21770 | -21790 | -21880 | -21990 | -24690 | -24690 | -25940 | -28000 | .19250 | .16980 |
| .800 | 16.301 | -23270 | -22720 | -22740 | -23290 | -25490 | -25490 | -26200 | -28210 | .19550 | .16990 |
| .800 | 22.525 | -26280 | -26020 | -25910 | -25660 | -27510 | -27510 | -27970 | -29600 | .19520 | .16810 |
| GRADIENT | | .00100 | .00096 | .00028 | .00139 | .00086 | .00086 | .00070 | .00121 | -.00001 | .00017 |

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(E2F060) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = 0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

| MACH | BDFLAP | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| .900 | -11.662 | -24460 | -24270 | -24600 | -23850 | -33710 | -33710 | -34910 | -35120 | -24220 | -21360 |
| .901 | -7.940 | -23480 | -23410 | -23070 | -23170 | -33260 | -33260 | -34790 | -35130 | -24080 | -21210 |
| .900 | -5.940 | -23440 | -22700 | -23440 | -23290 | -33540 | -33540 | -34080 | -35360 | -23980 | -21080 |
| .901 | -3.940 | -23550 | -22800 | -22210 | -22340 | -32850 | -32850 | -33640 | -34060 | -24150 | -21290 |
| .900 | -1.960 | -22590 | -22400 | -21760 | -21860 | -32970 | -32970 | -32400 | -34270 | -24210 | -21100 |
| .901 | .020 | -21860 | -21950 | -21880 | -21880 | -32070 | -32070 | -33550 | -34320 | -24320 | -21350 |
| .900 | 1.990 | -22510 | -21850 | -21920 | -22580 | -32650 | -32650 | -33140 | -34680 | -24090 | -21060 |
| .900 | 4.000 | -22580 | -22780 | -21710 | -22210 | -32140 | -32140 | -32610 | -33990 | -24180 | -21300 |
| .901 | 6.000 | -22900 | -22820 | -22580 | -22700 | -32200 | -32200 | -33280 | -33920 | -24100 | -21160 |
| .900 | 7.970 | -22730 | -22620 | -22250 | -22390 | -32060 | -32060 | -33960 | -34420 | -24000 | -21060 |
| .900 | 12.030 | -23260 | -23250 | -23820 | -23810 | -31330 | -31330 | -32960 | -33920 | -24070 | -21380 |
| .899 | 16.311 | -24310 | -24820 | -24670 | -24890 | -32020 | -32020 | -33400 | -34510 | -23750 | -21120 |
| .901 | 22.505 | -27620 | -27310 | -27670 | -27480 | -33090 | -33090 | -33150 | -34480 | -24130 | -21210 |
| | GRADIENT | .00102 | .00029 | .00042 | .00023 | .00088 | .00088 | .00067 | .00013 | -.00003 | -.00001 |

| MACH | BDFLAP | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .951 | -11.662 | -26190 | -26160 | -26240 | -26410 | -34510 | -34510 | -35260 | -36500 | -27860 | -24750 |
| .952 | -7.940 | -25860 | -25800 | -25000 | -25720 | -34840 | -34840 | -34970 | -35890 | -27700 | -24510 |
| .953 | -5.930 | -25270 | -24770 | -24690 | -24210 | -34770 | -34770 | -35570 | -36100 | -27780 | -24550 |
| .950 | -3.950 | -24840 | -25060 | -25300 | -25280 | -34470 | -34470 | -35160 | -35760 | -27340 | -24330 |
| .951 | -1.970 | -24280 | -24340 | -24750 | -24030 | -33290 | -33290 | -34870 | -35320 | -27590 | -24620 |
| .951 | .030 | -23740 | -24210 | -23570 | -24230 | -33480 | -33480 | -34220 | -35260 | -27510 | -24540 |
| .950 | 1.980 | -24240 | -24210 | -23910 | -24210 | -33640 | -33640 | -34400 | -35550 | -27510 | -24350 |
| .951 | 4.000 | -24000 | -23770 | -23990 | -23820 | -33210 | -33210 | -34390 | -35070 | -27750 | -24670 |
| .951 | 5.990 | -24210 | -23900 | -24270 | -24450 | -33210 | -33210 | -34020 | -35070 | -27700 | -24630 |
| .950 | 7.960 | -24560 | -24410 | -24070 | -24040 | -32760 | -32760 | -34090 | -34830 | -27740 | -24630 |
| .949 | 12.030 | -26040 | -25280 | -26090 | -25760 | -33910 | -33910 | -34200 | -34900 | -27420 | -24500 |
| .950 | 16.321 | -27420 | -27930 | -28190 | -27540 | -35010 | -35010 | -35530 | -36900 | -27610 | -24500 |
| .950 | 22.505 | -31590 | -31870 | -31130 | -31820 | -36720 | -36720 | -37300 | -38600 | -27630 | -24430 |
| | GRADIENT | .00087 | .00137 | .00174 | .00138 | .00109 | .00109 | .00101 | .00058 | .00039 | .00017 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(E2F060) (16 JUL 77)

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BRFL = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

ALPHA =
 ELEVON =
 SPOBRK =
 RN/L =

5.000 BETA = .000
 25.000 AILRON = .000
 5.000 RUDDER = .000

PARAMETRIC DATA

RUN NO. 318/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BDFLAP | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|
| 1.101 | -11.662 | -32810 | -33080 | -33110 | -32750 | -34740 | -34740 | -35280 | -35830 | 38250 | 35700 |
| 1.101 | -7.950 | -31680 | -32120 | -32390 | -32420 | -34190 | -34190 | -34760 | -35190 | 38480 | 35800 |
| 1.102 | -5.920 | -31850 | -31930 | -32090 | -31570 | -34000 | -34000 | -34730 | -35220 | 38560 | 35760 |
| 1.101 | -3.931 | -31230 | -31420 | -31610 | -33790 | -33790 | -34490 | -34970 | -34970 | 38220 | 35930 |
| 1.102 | -1.950 | -31900 | -31860 | -31640 | -32030 | -34120 | -34120 | -34790 | -35270 | 38220 | 35760 |
| 1.100 | .010 | -32010 | -32320 | -32250 | -32130 | -34520 | -34520 | -34860 | -35660 | 38460 | 35510 |
| 1.100 | 1.990 | -31880 | -32060 | -31660 | -32270 | -34340 | -34340 | -34710 | -35590 | 38480 | 35790 |
| 1.101 | 3.990 | -32330 | -32170 | -32100 | -32160 | -34250 | -34250 | -35130 | -35400 | 38250 | 35820 |
| 1.100 | 6.020 | -32130 | -31900 | -32350 | -32320 | -34540 | -34540 | -35230 | -35670 | 38240 | 35530 |
| 1.100 | 7.960 | -32580 | -32410 | -32530 | -32640 | -34710 | -34710 | -35270 | -36090 | 38190 | 35510 |
| 1.099 | 12.040 | -33850 | -34070 | -33850 | -34030 | -35450 | -35450 | -35720 | -36290 | 38090 | 35580 |
| 1.101 | 16.321 | -35600 | -35320 | -35760 | -35630 | -35960 | -35960 | -36830 | -37180 | 38620 | 36070 |
| 1.098 | 22.394 | -38280 | -38030 | -38180 | -38120 | -37940 | -37940 | -38320 | -38870 | 38280 | 35770 |
| | GRADIENT | -00110 | -00096 | -00050 | -00088 | -00057 | -00057 | -00061 | -00059 | 00016 | -00010 |

RUN NO. 310/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BDFLAP | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.202 | -11.662 | -30670 | -30550 | -30820 | -30850 | -31380 | -31380 | -31430 | -32600 | 40470 | 36300 |
| 1.201 | -7.950 | -30560 | -30450 | -30540 | -30680 | -31420 | -31420 | -31960 | -32680 | 40390 | 36230 |
| 1.202 | -5.940 | -30370 | -30490 | -30370 | -30510 | -31470 | -31470 | -31760 | -32550 | 40290 | 36180 |
| 1.201 | -3.950 | -30420 | -30530 | -30590 | -30610 | -31340 | -31340 | -31980 | -32500 | 40270 | 36160 |
| 1.201 | -1.950 | -30720 | -30510 | -30660 | -30530 | -31260 | -31260 | -31740 | -32580 | 40350 | 36260 |
| 1.199 | .010 | -30780 | -31040 | -31080 | -31080 | -31610 | -31610 | -32300 | -32840 | 40080 | 35980 |
| 1.201 | 1.990 | -30770 | -30880 | -31020 | -30990 | -31610 | -31610 | -31860 | -32630 | 40420 | 36260 |
| 1.201 | 4.010 | -30810 | -31110 | -31350 | -31170 | -31890 | -31890 | -32380 | -32830 | 40210 | 36140 |
| 1.201 | 6.020 | -31240 | -31270 | -31230 | -31410 | -31520 | -31520 | -32390 | -33190 | 40380 | 36360 |
| 1.202 | 7.980 | -31330 | -31150 | -31340 | -31410 | -31900 | -31900 | -32420 | -32870 | 40350 | 36240 |
| 1.199 | 12.030 | -32580 | -32680 | -32610 | -32650 | -32850 | -32850 | -33300 | -33850 | 40230 | 36030 |
| 1.201 | 16.321 | -33730 | -33680 | -33810 | -33840 | -34640 | -34640 | -35140 | -35720 | 40200 | 36220 |
| 1.201 | 22.374 | -35560 | -35450 | -35490 | -35420 | -34860 | -34860 | -35090 | -35630 | 40280 | 36190 |
| 1.200 | GRADIENT | -00042 | -00077 | -00085 | -00079 | -00073 | -00073 | -00047 | -00036 | -00003 | -00002 |

DATE 10 MAR 80

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(E2F060) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 309/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BDFLAP | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 1.298 | -11.652 | -30250 | -30440 | -30410 | -30410 | -31270 | -31270 | -31370 | -32030 | .42820 | .38360 |
| 1.298 | -7.960 | -30160 | -29940 | -30250 | -30400 | -30900 | -30900 | -31430 | -31970 | .42720 | .38330 |
| 1.297 | -5.920 | -30290 | -30390 | -30100 | -30300 | -31390 | -31390 | -31470 | -32130 | .42580 | .38110 |
| 1.297 | -3.940 | -30370 | -30260 | -30220 | -30370 | -31200 | -31200 | -31490 | -32010 | .42680 | .38250 |
| 1.297 | -1.940 | -30060 | -30380 | -30430 | -30470 | -31010 | -31010 | -31640 | -32160 | .42630 | .38300 |
| 1.297 | .010 | -30140 | -30260 | -29950 | -30270 | -30900 | -30900 | -31470 | -31970 | .42640 | .38350 |
| 1.298 | 1.990 | -29790 | -30080 | -30060 | -29860 | -31000 | -31000 | -31070 | -31640 | .42670 | .38330 |
| 1.297 | 4.010 | -30250 | -30310 | -30200 | -30270 | -30970 | -30970 | -31540 | -31850 | .42530 | .38180 |
| 1.297 | 5.980 | -29970 | -30270 | -29980 | -30380 | -30640 | -30640 | -31180 | -31850 | .42750 | .38440 |
| 1.298 | 7.970 | -30200 | -29810 | -30040 | -30300 | -30970 | -30970 | -31300 | -31820 | .42750 | .38390 |
| 1.297 | 12.030 | -30670 | -31070 | -31110 | -30760 | -31620 | -31620 | -31960 | -32550 | .42570 | .38280 |
| 1.298 | 16.311 | -32170 | -32120 | -32150 | -32250 | -32520 | -32520 | -32820 | -33340 | .42710 | .38370 |
| 1.297 | 22.364 | -34350 | -34010 | -34180 | -34000 | -34090 | -34090 | -34420 | -35100 | .42720 | .38290 |
| | GRADIENT | .00026 | .00010 | .00020 | .00041 | .00024 | .00024 | .00023 | .00042 | -.00013 | -.00006 |

RUN NO. 304/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BDFLAP | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|---------|---------|--------|--------|--------|---------|
| 1.405 | -11.672 | -31160 | -31110 | -31160 | -31080 | -31230 | -31230 | -31450 | -31600 | .48340 | .44450 |
| 1.404 | -7.940 | -31060 | -31060 | -31020 | -31180 | -31150 | -31150 | -31430 | -31570 | .48150 | .44450 |
| 1.404 | -5.940 | -31070 | -31070 | -31080 | -31120 | -31070 | -31070 | -31240 | -31570 | .48430 | .44490 |
| 1.404 | -3.921 | -31060 | -30850 | -30890 | -31040 | -30740 | -30740 | -31010 | -31410 | .48540 | .44550 |
| 1.403 | -1.950 | -31020 | -30880 | -30910 | -31010 | -30790 | -30790 | -31130 | -31510 | .48620 | .44530 |
| 1.404 | .020 | -30750 | -30660 | -30810 | -30720 | -30780 | -30780 | -30940 | -31190 | .48500 | .44560 |
| 1.403 | 1.990 | -30710 | -30520 | -30740 | -30780 | -30750 | -30750 | -30920 | -31230 | .48770 | .44540 |
| 1.403 | 4.000 | -30920 | -30790 | -30990 | -30920 | -30770 | -30770 | -31090 | -31360 | .48730 | .44570 |
| 1.403 | 5.990 | -31060 | -30980 | -31000 | -31010 | -30890 | -30890 | -31210 | -31510 | .48490 | .44530 |
| 1.404 | 7.950 | -30920 | -31050 | -30900 | -30960 | -30890 | -30890 | -31100 | -31590 | .48760 | .44570 |
| 1.403 | 12.040 | -31280 | -31520 | -31410 | -31440 | -31450 | -31450 | -31810 | -32310 | .48490 | .44430 |
| 1.403 | 16.311 | -32070 | -32000 | -32070 | -32130 | -31840 | -31840 | -31930 | -32310 | .48760 | .44630 |
| 1.403 | 22.313 | -33100 | -33080 | -33250 | -33270 | -32660 | -32660 | -32720 | -33120 | .48840 | .44600 |
| | GRADIENT | .00030 | .00024 | .00002 | .00024 | -.00001 | -.00001 | .00002 | .00019 | .00027 | -.00008 |

OAI45 TABULATED FORCE DATA

AMES 118-1-11 OAI45A 01

DATE 10 MAR 80

(E2F061) (18 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPOBRK = .25.000
 RN/L = 5.000

RUN NO. 329/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .598 | -15.355 | -21570 | -21690 | -22040 | -21950 | -21580 | -21580 | -21430 | -21670 | .07160 | .06870 |
| .598 | -10.307 | -21080 | -21340 | -21060 | -20980 | -21120 | -21120 | -21590 | -21360 | .06930 | .06930 |
| .598 | -5.076 | -20540 | -20400 | -20160 | -20300 | -20370 | -20370 | -20600 | -20740 | .07020 | .07050 |
| .598 | -2.513 | -20300 | -20230 | -20260 | -20610 | -20370 | -20370 | -20470 | -20800 | .07430 | .07100 |
| .598 | .000 | -20510 | -20610 | -20580 | -20560 | -20410 | -20410 | -20720 | -21210 | .06990 | .06960 |
| .598 | 2.541 | -20910 | -20430 | -20960 | -20690 | -20530 | -20530 | -21030 | -21120 | .07030 | .06970 |
| .598 | 4.864 | -21130 | -20790 | -20700 | -20940 | -20650 | -20650 | -20790 | -21430 | .07290 | .06830 |
| .598 | 9.576 | -21170 | -21310 | -21240 | -21550 | -21280 | -21280 | -21540 | -21690 | .06950 | .06540 |
| .598 | 14.614 | -21750 | -21610 | -21780 | -21750 | -21450 | -21450 | -21240 | -21430 | .06970 | .06790 |
| .598 | 18.253 | -21870 | -22330 | -22040 | -21990 | -21640 | -21640 | -21800 | -22020 | .07250 | .06870 |
| .598 | 23.063 | -22850 | -22870 | -22890 | -22490 | -21900 | -21900 | -21880 | -22420 | .07320 | .06940 |
| | GRADIENT | -200117 | -200060 | -200070 | -200045 | -200039 | -200039 | -200052 | -200072 | -.00016 | -.00032 |

RUN NO. 344/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .800 | -15.338 | -23010 | -22460 | -22650 | -23010 | -24120 | -24120 | -24390 | -24760 | .11480 | .10780 |
| .800 | -10.307 | -22280 | -21930 | -22530 | -22150 | -23800 | -23800 | -24120 | -24190 | .11600 | .10630 |
| .800 | -5.076 | -21980 | -22260 | -21960 | -21710 | -23400 | -23400 | -23550 | -24360 | .11720 | .10700 |
| .800 | -2.513 | -21290 | -21650 | -21160 | -21710 | -23150 | -23150 | -23250 | -23810 | .11960 | .10780 |
| .799 | .000 | -2201 | -21760 | -21550 | -21770 | -23180 | -23180 | -23650 | -24140 | .11540 | .10730 |
| .800 | 2.549 | -21890 | -21700 | -21730 | -21510 | -22960 | -22960 | -23540 | -23540 | .11940 | .10920 |
| .800 | 4.856 | -21580 | -21960 | -21650 | -22110 | -23680 | -23680 | -23530 | -24020 | .11570 | .10430 |
| .800 | 9.584 | -22310 | -22410 | -22410 | -22350 | -23210 | -23210 | -23020 | -24130 | .11750 | .10820 |
| .800 | 14.605 | -23050 | -22490 | -23130 | -22980 | -23570 | -23570 | -23840 | -24060 | .11580 | .10860 |
| .800 | 18.280 | -23680 | -23500 | -23250 | -23080 | -24370 | -24370 | -24010 | -24780 | .11430 | .10540 |
| .800 | 22.963 | -23790 | -24240 | -24050 | -23970 | -24490 | -24490 | -24400 | -24700 | .11640 | .10710 |
| | GRADIENT | -200029 | -200035 | -200068 | -200037 | -200054 | -200054 | -200022 | -200000 | -.00031 | -.00034 |

C-10

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1785

AMES 118-1-11 OAI45A 01

(E2F061) (15 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = 25.000
 RN/L = 5.000

RUN NO. 390/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|----------|--------|----------|----------|--------|--------|----------|----------|--------|----------|
| .900 | -15.381 | -25600 | -25920 | -25460 | -26020 | -29230 | -29230 | -30110 | -31630 | .17000 | .15910 |
| .901 | -10.331 | -24550 | -24970 | -24700 | -24720 | -29480 | -29480 | -31270 | -32030 | .17040 | .15790 |
| .899 | -5.008 | -24630 | -24200 | -24470 | -24590 | -29720 | -29720 | -30440 | -30860 | .16740 | .15430 |
| .901 | -2.504 | -24240 | -24270 | -23830 | -24080 | -29130 | -29130 | -29350 | -30300 | .16970 | .15790 |
| .900 | .043 | -24280 | -24310 | -24040 | -24950 | -28450 | -28450 | -29880 | -30610 | .16690 | .15810 |
| .900 | 2.566 | -24290 | -24120 | -24040 | -24760 | -28990 | -28990 | -29500 | -29670 | .17070 | .15680 |
| .900 | 4.831 | -24480 | -23910 | -24560 | -24680 | -28870 | -28870 | -29890 | -31190 | .17100 | .15620 |
| .902 | 9.576 | -24660 | -24790 | -24420 | -23750 | -28620 | -28620 | -29070 | -30380 | .17150 | .15940 |
| .900 | 14.605 | -25460 | -25700 | -24540 | -25650 | -29180 | -29180 | -29640 | -30500 | .16970 | .15620 |
| .901 | 18.271 | -25660 | -25750 | -25970 | -25850 | -28860 | -28860 | -29620 | -29780 | .16960 | .15760 |
| .902 | 22.762 | -25850 | -25900 | -26170 | -26000 | -28780 | -28780 | -29000 | -29210 | .17180 | .15900 |
| | GRADIENT | - .00029 | .00051 | - .00088 | - .00057 | .00010 | .00010 | - .00050 | - .00066 | .00031 | - .00026 |

RUN NO. 413/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|----------|----------|----------|----------|----------|----------|--------|----------|----------|
| .951 | -14.736 | -29120 | -29170 | -29170 | -29400 | -36710 | -36710 | -37480 | -38510 | .22680 | .20560 |
| .951 | -10.691 | -28800 | -28530 | -28300 | -28320 | -36530 | -36530 | -37200 | -38180 | .22780 | .20470 |
| .950 | -5.366 | -28940 | -28570 | -28850 | -29040 | -36720 | -36720 | -37290 | -38460 | .22590 | .20320 |
| .951 | -2.776 | -28070 | -27650 | -27650 | -27940 | -35850 | -35850 | -36830 | -37950 | .23020 | .20790 |
| .952 | -.966 | -27560 | -27750 | -27630 | -27580 | -35830 | -35830 | -36480 | -37460 | .22990 | .20710 |
| .950 | .123 | -28430 | -28430 | -28590 | -28610 | -36220 | -36220 | -37050 | -38380 | .22720 | .20490 |
| .950 | 2.333 | -22750 | -38610 | -41310 | -30790 | -36740 | -36740 | -37380 | .00000 | .22540 | .20310 |
| .952 | 4.811 | -28200 | -28080 | -27570 | -28100 | -36100 | -36100 | -36760 | -38060 | .22970 | .20680 |
| .951 | 9.684 | -28960 | -28900 | -28460 | -28610 | -36680 | -36680 | -37520 | -38680 | .22830 | .20620 |
| .950 | 14.538 | -29020 | -29070 | -29710 | -29220 | -36970 | -36970 | -37920 | -38920 | .22770 | .20480 |
| .949 | 18.070 | -30010 | -29910 | -30230 | -29460 | -36970 | -36970 | -37880 | -39120 | .22750 | .20440 |
| .950 | 22.799 | -30430 | -30640 | -30590 | -30930 | -37190 | -37190 | -38150 | -38990 | .22850 | .20570 |
| | GRADIENT | .00223 | - .00553 | - .00623 | - .00157 | - .00065 | - .00065 | - .00029 | .01787 | - .00021 | - .00026 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1787

(EF062) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = 25.000
 RN/L = 5.000

RUN NO. 350/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|---------|---------|--------|---------|--------|---------|---------|--------|--------|--------|--------|
| .902 | -15.364 | -24030 | -23700 | -23640 | -23630 | -32360 | -32360 | -33740 | -34630 | .23400 | .21090 |
| .900 | -10.315 | -23850 | -23470 | -23420 | -23320 | -33450 | -33450 | -33810 | -34260 | .23070 | .20520 |
| .901 | -5.101 | -23060 | -22950 | -22690 | -23110 | -32940 | -32940 | -33490 | -34210 | .23160 | .20590 |
| .900 | -4.079 | -22980 | -23260 | -22580 | -23240 | -32840 | -32840 | -33130 | -33980 | .23030 | .20570 |
| .901 | -3.066 | -22550 | -22670 | -22720 | -22790 | -31740 | -31740 | -33150 | -34390 | .23390 | .20910 |
| .901 | -1.988 | -22580 | -22620 | -22580 | -22150 | -32140 | -32140 | -32750 | -34300 | .23020 | .20820 |
| .901 | -1.945 | -22810 | -22690 | -22760 | -22530 | -31590 | -31590 | -33610 | -34090 | .23210 | .20990 |
| .902 | .128 | -23130 | -22210 | -22540 | -23290 | -31780 | -31780 | -33340 | -34080 | .23190 | .20860 |
| .901 | 1.057 | -22330 | -22520 | -22510 | -22660 | -31780 | -31780 | -32950 | -34310 | .23320 | .20970 |
| .901 | 2.073 | -21830 | -22310 | -22310 | -22380 | -32290 | -32290 | -32720 | -34100 | .23470 | .20820 |
| .902 | 2.983 | -22420 | -22510 | -22590 | -22750 | -32280 | -32280 | -32620 | -34470 | .23090 | .20830 |
| .902 | 3.929 | -22950 | -22410 | -22890 | -22760 | -31850 | -31850 | -32660 | -33680 | .23130 | .21090 |
| .901 | 4.848 | -23700 | -23160 | -22740 | -22520 | -32750 | -32750 | -32440 | -34190 | .23270 | .20730 |
| .901 | 9.584 | -23660 | -23070 | -22990 | -23370 | -31740 | -31740 | -33580 | -34820 | .23300 | .20990 |
| .900 | 14.614 | -23890 | -24360 | -24400 | -24080 | -31750 | -31750 | -33440 | -34010 | .23480 | .20980 |
| .902 | 18.271 | -24460 | -24050 | -23250 | -23910 | -32670 | -32670 | -33270 | -33980 | .23230 | .20820 |
| .901 | 22.855 | -24490 | -24730 | -25170 | -25270 | -31830 | -31830 | -33300 | -34070 | .23170 | .21040 |
| GRADIENT | | -0.0027 | .00034 | -0.0023 | .00029 | -0.0012 | -0.0012 | .00080 | .00012 | .00010 | .00015 |

RUN NO. 414/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|---------|---------|---------|--------|----------|----------|----------|----------|----------|----------|----------|
| .950 | -14.741 | -27890 | -27560 | -27270 | -27420 | -34200 | -34200 | -35070 | -36140 | .28580 | .25110 |
| .951 | -5.373 | -26310 | -25510 | -25990 | -25890 | -33570 | -33570 | -34670 | -35150 | .28720 | .25080 |
| .950 | -2.727 | -23220 | -26280 | -26380 | -26070 | -33900 | -33900 | -34170 | -35520 | .28540 | .25000 |
| .951 | -1.103 | -21190 | -25960 | -26170 | -26690 | -32990 | -32990 | -34440 | -35320 | .28900 | .25220 |
| .950 | 2.315 | -21260 | -26060 | -25720 | -26420 | -33110 | -33110 | -34310 | -35270 | .28630 | .25030 |
| .950 | 4.968 | -21530 | -26800 | -26450 | -26580 | -33860 | -33860 | -34360 | -35660 | .28500 | .24800 |
| .950 | 9.700 | -27170 | -26710 | -26810 | -26710 | -33840 | -33840 | -34520 | -35100 | .28660 | .24930 |
| .949 | 14.530 | -27320 | -26710 | -26810 | -26920 | -34090 | -34090 | -34710 | -35640 | .28490 | .24830 |
| .949 | 18.051 | -28030 | -27480 | -27710 | -27300 | -34290 | -34290 | -35350 | -35650 | .28400 | .24910 |
| .950 | 22.827 | -28450 | -28330 | -28380 | -28710 | -34370 | -34370 | -35390 | -36340 | .28570 | .24970 |
| GRADIENT | | -0.0039 | -0.0065 | .00008 | -0.00050 | -0.00000 | -0.00000 | -0.00018 | -0.00015 | -0.00015 | -0.00031 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

AMES 118-1-11 0A145A 01(-TO+)

(E2F062) (16 JUL 77)

REFERENCE DATA

| | | | | | | | | | | |
|---|-------|---|-----------|--------|---|------|---|-----------|-----|----|
| = | SREF | = | 2690.0000 | SO.FT. | = | YMRP | = | 1075.6800 | IN. | XO |
| = | LREF | = | 474.8100 | INCHES | = | YMRP | = | .0000 | IN. | YO |
| = | BREF | = | 936.6800 | INCHES | = | ZMRP | = | 375.0000 | IN. | ZO |
| = | SCALE | = | .0500 | | | | | | | |

PARAMETRIC DATA

| | | | | | |
|--------|---|-------|--------|---|--------|
| ALPHA | = | 5.000 | BETA | = | .000 |
| ELEVON | = | .000 | AIRLON | = | .000 |
| BDFLAP | = | .000 | SPDRK | = | 25.000 |
| RN/L | = | 5.000 | | | |

| CHIN NO | 357/ 0 | RN/1 | = | 4.96 | GRADIENT | INTERVAL | = | -5.00/ | 5.00 |
|---------|--------|------|---|------|----------|----------|---|--------|------|
|---------|--------|------|---|------|----------|----------|---|--------|------|

[illegible]

| | | | | | | | |
|------|----|---------|--------|------|---------------------|---------|------|
| 2441 | NO | 760 / 0 | BN/1 = | 4.95 | GRADIENT INTERVAL = | -5.00 / | 5.00 |
|------|----|---------|--------|------|---------------------|---------|------|

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1.198 | -15.389 | -32850 | -32610 | -32820 | -32840 | -33040 | -33040 | -33560 | -34160 | 40430 | 35830 |
| 1.200 | -10.331 | -32030 | -31980 | -31630 | -31750 | -32830 | -32830 | -32830 | -33710 | 40600 | 35990 |
| 1.199 | -5.076 | -31340 | -31520 | -31180 | -31480 | -32250 | -32250 | -32160 | -33250 | 40550 | 35930 |
| 1.201 | -4.104 | -30770 | -31000 | -30850 | -31050 | -31800 | -31800 | -32410 | -33360 | 40800 | 36200 |
| 1.201 | -3.057 | -30950 | -30980 | -30980 | -30820 | -31880 | -31880 | -32100 | -33300 | 40730 | 36110 |
| 1.200 | -1.979 | -31140 | -30820 | -30870 | -30900 | -31880 | -32090 | -32620 | -32690 | 40580 | 35940 |
| 1.200 | -1.970 | -30920 | -30940 | -31110 | -31140 | -32010 | -32010 | -32580 | -33440 | 40580 | 35920 |
| 1.199 | 0.000 | -31210 | -31210 | -31230 | -31060 | -31880 | -31880 | -32350 | -32950 | 40580 | 35950 |
| 1.199 | 1.031 | -30770 | -31060 | -31200 | -30970 | -31880 | -31920 | -32350 | -32950 | 40680 | 36030 |
| 1.200 | 2.057 | -30960 | -31350 | -31180 | -30930 | -31770 | -31770 | -32140 | -32970 | 40700 | 36050 |
| 1.200 | 3.000 | -30880 | -31150 | -31380 | -31100 | -31770 | -31920 | -32350 | -32970 | 40700 | 36120 |
| 1.200 | 3.937 | -31370 | -31260 | -31060 | -31320 | -32280 | -32280 | -32910 | -33420 | 40540 | 35960 |
| 1.199 | 4.856 | -31280 | -31690 | -31220 | -31760 | -32480 | -32480 | -32910 | -33130 | 40580 | 35870 |
| 1.201 | 9.584 | -31870 | -31750 | -31680 | -31950 | -32310 | -32310 | -32950 | -33420 | 40700 | 36150 |
| 1.201 | 14.614 | -32420 | -32370 | -32440 | -32370 | -33070 | -33070 | -33170 | -33910 | 40690 | 36070 |
| 1.200 | 18.253 | -33070 | -33050 | -33010 | -32720 | -33120 | -33120 | -34060 | -34350 | 40640 | 36070 |
| 1.200 | 22.642 | -33240 | -33370 | -33080 | -33330 | -33480 | -33480 | -34150 | -34510 | 40560 | 35950 |
| 1.199 | GRADIENT | -0.0035 | -0.0066 | -0.0040 | -0.0060 | -0.0041 | -0.0041 | -0.0042 | -0.0030 | -0.0013 | -0.0016 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1789

(E2F082) (16 JUL 77)

AMES 118-1-11 OAI45A OI(-TO+)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6300 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. X0
 YMRP = .0000 IN. Y0
 ZMRP = 375.0000 IN. Z0

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = 25.000
 RN/L = 5.000

RUN NO. 380/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1.298 | -15.372 | -31540 | -31640 | -31750 | -31660 | -32380 | -32380 | -32390 | -32960 | 42790 | 38190 |
| 1.298 | -10.299 | -30740 | -30960 | -31000 | -31210 | -31670 | -31670 | -32210 | -32830 | 42920 | 38290 |
| 1.297 | -5.101 | -30300 | -30480 | -30120 | -30400 | -30950 | -30950 | -31500 | -32090 | 42780 | 38350 |
| 1.298 | -2.476 | -30020 | -30020 | -29880 | -29830 | -30880 | -30810 | -31320 | -32040 | 42860 | 38310 |
| 1.298 | -.033 | -29930 | -29910 | -29730 | -30280 | -30810 | -30810 | -31290 | -31860 | 42890 | 38360 |
| 1.297 | 2.532 | -30130 | -30220 | -29980 | -30220 | -30810 | -30810 | -31390 | -31810 | 42880 | 38390 |
| 1.297 | 4.856 | -30170 | -30210 | -30380 | -30430 | -31000 | -31000 | -31640 | -32160 | 42810 | 38280 |
| 1.297 | 9.584 | -30930 | -30850 | -30850 | -31150 | -31340 | -31340 | -32090 | -32300 | 42860 | 38440 |
| 1.296 | 14.614 | -31880 | -31880 | -31900 | -31710 | -32080 | -32080 | -32800 | -33170 | 42670 | 38150 |
| 1.297 | 18.308 | -31900 | -31680 | -32150 | -31960 | -32270 | -32270 | -32690 | -33040 | 42870 | 38280 |
| 1.297 | 22.623 | -32360 | -32450 | -32340 | -32380 | -32530 | -32530 | -33210 | -33650 | 42810 | 38250 |
| | GRADIENT | -.00027 | -.00036 | -.00071 | -.00071 | -.00014 | -.00014 | -.00043 | -.00012 | -.00006 | -.00002 |

FUN NO. 370/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 1.403 | -15.372 | -31910 | -32010 | -31970 | -32010 | -31720 | -31720 | -32060 | -32470 | 46240 | 44670 |
| 1.403 | -10.299 | -31540 | -31450 | -31540 | -31430 | -31730 | -31730 | -31850 | -32160 | 46170 | 44340 |
| 1.403 | -5.084 | -31130 | -30900 | -30920 | -31000 | -31200 | -31200 | -31510 | -31700 | 46230 | 44440 |
| 1.403 | -2.531 | -30770 | -30960 | -30940 | -30860 | -31050 | -31050 | -31380 | -31700 | 46130 | 44420 |
| 1.403 | .034 | -30740 | -30670 | -30650 | -30840 | -31080 | -31080 | -31230 | -31490 | 46210 | 44330 |
| 1.403 | 2.524 | -30720 | -30830 | -30820 | -30940 | -31000 | -31000 | -31270 | -31560 | 46340 | 44500 |
| 1.404 | 4.864 | -30790 | -30820 | -30910 | -30860 | -31080 | -31080 | -31300 | -31570 | 46330 | 44450 |
| 1.403 | 9.567 | -31370 | -31350 | -31230 | -31340 | -31490 | -31490 | -31650 | -31920 | 46230 | 44350 |
| 1.403 | 14.605 | -31750 | -31850 | -31860 | -31830 | -31910 | -31910 | -31990 | -32400 | 46280 | 44410 |
| 1.403 | 18.271 | -32180 | -32300 | -32160 | -32210 | -32160 | -32160 | -32350 | -32700 | 46190 | 44550 |
| 1.403 | 22.670 | -32710 | -32630 | -32670 | -32680 | -32560 | -32560 | -32680 | -33000 | 46170 | 44350 |
| | GRADIENT | -.00001 | -.00011 | -.00003 | -.00008 | -.00000 | -.00000 | -.00008 | -.00013 | .00030 | .00011 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01(+TO-)

(E2F063) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XC
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = 25.000
 RN/L = 5.000

RUN NO. 324/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .597 | -22.170 | -21990 | -22180 | -21800 | -22310 | -23310 | -23310 | -23790 | -26140 | -14430 | -13430 |
| .597 | -15.372 | -20950 | -21170 | -21400 | -21000 | -22530 | -22530 | -23740 | -25780 | -14730 | -13620 |
| .597 | -10.307 | -20670 | -20790 | -20720 | -20950 | -22540 | -22540 | -23060 | -25240 | -14630 | -13390 |
| .597 | -5.093 | -20670 | -20510 | -20840 | -20480 | -22110 | -22110 | -23290 | -25050 | -14520 | -13430 |
| .596 | -3.066 | -20750 | -20890 | -20870 | -20770 | -22510 | -22510 | -23750 | -25560 | -14330 | -13210 |
| .597 | -1.979 | -20650 | -20720 | -20460 | -20840 | -22280 | -22280 | -23370 | -24890 | -14350 | -13230 |
| .597 | -.962 | -20160 | -20560 | -20560 | -20590 | -22440 | -22440 | -23200 | -25130 | -14560 | -13200 |
| .597 | .026 | -20490 | -20440 | -20510 | -20490 | -22540 | -22540 | -23630 | -25290 | -14090 | -13060 |
| .597 | 1.031 | -20460 | -20700 | -20320 | -20460 | -22210 | -22210 | -23110 | -25410 | -14560 | -13410 |
| .597 | 2.073 | -20290 | -21040 | -20770 | -20870 | -22660 | -22660 | -23400 | -25010 | -14160 | -13100 |
| .596 | 2.983 | -20940 | -21080 | -21130 | -20770 | -22370 | -22370 | -23330 | -25380 | -14440 | -13290 |
| .596 | 3.880 | -21130 | -21060 | -21270 | -21370 | -22570 | -22570 | -23280 | -25710 | -14530 | -13230 |
| .597 | 4.873 | -20900 | -20800 | -20970 | -20680 | -22450 | -22450 | -23350 | -25350 | -14240 | -13350 |
| .596 | 9.584 | -21140 | -20970 | -21500 | -21040 | -22690 | -22690 | -23550 | -25620 | -14080 | -13050 |
| .597 | 14.596 | -21530 | -20700 | -21740 | -21650 | -22530 | -22530 | -23690 | -25470 | -14270 | -13510 |
| .597 | 18.253 | -21910 | -22080 | -22010 | -22100 | -22840 | -22840 | -23830 | -25520 | -14210 | -13390 |
| .597 | 23.109 | -22570 | -22350 | -22400 | -22610 | -23300 | -23300 | -24060 | -25840 | -14330 | -13220 |
| .597 | GRADIENT | -00055 | -00038 | -00070 | -00031 | -00010 | -00010 | -00031 | -00026 | -00000 | -00013 |

RUN NO. 351/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .902 | -22.179 | -25470 | -23990 | -24780 | -24820 | -33110 | -33110 | -33990 | -34530 | -23480 | -20990 |
| .901 | -15.372 | -24210 | -23330 | -23590 | -23900 | -3250 | -3250 | -33390 | -34760 | -23260 | -20650 |
| .901 | -10.323 | -23130 | -23150 | -23330 | -23820 | -32170 | -32170 | -33650 | -35000 | -23300 | -20950 |
| .902 | -5.110 | -22480 | -22310 | -22730 | -22550 | -32320 | -32320 | -33260 | -33860 | -23450 | -20940 |
| .901 | -3.066 | -23240 | -22730 | -22730 | -23450 | -31890 | -31890 | -33550 | -34290 | -23600 | -20920 |
| .902 | -1.988 | -22190 | -22380 | -22120 | -22220 | -31860 | -31860 | -32970 | -32340 | -23430 | -21010 |
| .901 | -.954 | -22800 | -22370 | -22720 | -22660 | -32680 | -32680 | -32390 | -33660 | -23220 | -20690 |
| .901 | .017 | -22590 | -22430 | -22430 | -22670 | -32950 | -32950 | -33140 | -33930 | -23150 | -20670 |
| .901 | 1.023 | -22650 | -22240 | -22430 | -22690 | -32320 | -32320 | -33390 | -34080 | -23200 | -20820 |
| .901 | 2.055 | -23020 | -22570 | -22610 | -22900 | -31890 | -31890 | -32870 | -34340 | -23100 | -21060 |
| .901 | 2.983 | -22920 | -22370 | -22290 | -22230 | -31810 | -31810 | -32330 | -33960 | -23250 | -21010 |
| .901 | 3.921 | -23030 | -23080 | -23220 | -22990 | -32330 | -32330 | -33040 | -33860 | -23370 | -20770 |
| .902 | 4.855 | -23030 | -23120 | -23030 | -22820 | -31980 | -31980 | -33380 | -34290 | -23110 | -20930 |
| .902 | 9.576 | -22890 | -23440 | -22930 | -23820 | -31780 | -31780 | -33030 | -34290 | -23370 | -21140 |
| .901 | 14.586 | -23670 | -23930 | -24190 | -24220 | -31770 | -31770 | -32870 | -33540 | -23350 | -21070 |
| .902 | 18.262 | -24370 | -23890 | -24130 | -24200 | -32160 | -32160 | -33310 | -33160 | -23350 | -20990 |
| .902 | 22.855 | -25160 | -25110 | -25220 | -25300 | -31990 | -31990 | -32790 | -33800 | -23080 | -20780 |
| .898 | GRADIENT | -04554 | -00531 | -01434 | -01583 | -00017 | -00017 | -00023 | -02234 | -00032 | -00006 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01(+TO-)

(E2F063) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELEVON = .000 AILRON = .000
BDFLAP = .000 SPDBRK = 25.000
RN/L = 5.000

RUN NO. 361 / 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00 / 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.199 | -22.205 | -32860 | -32860 | -32820 | -32720 | -33410 | -33410 | -33970 | -34290 | 40520 | 35930 |
| 1.199 | -15.398 | -32270 | -32210 | -32020 | -32480 | -32790 | -32790 | -33310 | -34050 | 40590 | 36000 |
| 1.199 | -10.339 | -31790 | -31580 | -31890 | -31750 | -32420 | -32420 | -32620 | -33600 | 40590 | 36000 |
| 1.200 | -5.135 | -31200 | -31160 | -31460 | -31260 | -31840 | -31840 | -32500 | -32870 | 40640 | 36140 |
| 1.201 | -3.066 | -31070 | -30890 | -30810 | -30780 | -32150 | -32150 | -32310 | -33180 | 40700 | 35990 |
| 1.199 | -1.997 | -31190 | -31180 | -31280 | -31020 | -31880 | -31880 | -31880 | -33190 | 40620 | 36030 |
| 1.199 | -979 | -31260 | -31110 | -31060 | -31080 | -32070 | -32070 | -32200 | -33520 | 40610 | 35980 |
| 1.199 | -017 | -31200 | -31230 | -31020 | -31050 | -32300 | -32300 | -32520 | -33270 | 40550 | 35900 |
| 1.199 | 1.040 | -30870 | -31090 | -31160 | -31010 | -31960 | -31960 | -32680 | -33270 | 40660 | 36070 |
| 1.200 | 2.065 | -30960 | -31200 | -30940 | -31010 | -31530 | -31530 | -32360 | -33110 | 40720 | 36170 |
| 1.199 | 3.008 | -31200 | -31100 | -31070 | -31300 | -32180 | -32180 | -32910 | -33010 | 40490 | 36030 |
| 1.199 | 3.929 | -31640 | -31680 | -31620 | -31290 | -32600 | -32600 | -32740 | -33500 | 40480 | 35800 |
| 1.200 | 4.839 | -31240 | -31580 | -31070 | -31330 | -32280 | -32280 | -32450 | -33270 | 40560 | 35960 |
| 1.201 | 9.559 | -31570 | -31770 | -31710 | -31870 | -32140 | -32140 | -32840 | -33520 | 40770 | 36220 |
| 1.201 | 14.577 | -32440 | -32400 | -32390 | -32290 | -33090 | -33090 | -33340 | -34160 | 40700 | 35970 |
| 1.201 | 18.243 | -32660 | -32890 | -32820 | -32860 | -33140 | -33140 | -33200 | -34420 | 40700 | 36080 |
| 1.201 | 22.642 | -33050 | -32870 | -33190 | -32900 | -33370 | -33370 | -33880 | -34500 | 40570 | 36040 |
| 1.200 | GRADIENT | -00027 | -00070 | -00034 | -00057 | -00034 | -00034 | -00074 | -00030 | -00017 | -00007 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(E2F064) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 BETA = .000
 ELEVON = .000 AILRON = .000
 BD/FLAP = .000 SPDBRK = 25.000
 RN/L = 5.000

RUN NO. 325/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| .597 | -15.364 | -21080 | -20520 | -21030 | -21050 | -25730 | -25730 | -27650 | -31060 | .17810 | .14990 |
| .597 | -10.307 | -20790 | -20500 | -20740 | -20400 | -25460 | -25460 | -27170 | -30760 | .17980 | .15120 |
| .597 | -5.118 | -20580 | -20580 | -20600 | -20650 | -24990 | -24990 | -27060 | -30540 | .18460 | .15340 |
| .596 | -2.541 | -20230 | -20790 | -20620 | -20430 | -25090 | -25090 | -26770 | -30840 | .18580 | .15220 |
| .597 | .000 | -20240 | -20790 | -20700 | -20930 | -24370 | -24370 | -27310 | -29990 | .18740 | .15720 |
| .597 | 2.541 | -20710 | -20500 | -20280 | -20060 | -25310 | -25310 | -27560 | -30330 | .17620 | .15070 |
| .597 | 5.028 | -20190 | -20500 | -20260 | -20400 | -24640 | -24640 | -26540 | -30340 | .18340 | .15490 |
| .596 | 9.584 | -21220 | -21290 | -21460 | -21460 | -24710 | -24710 | -27180 | -30340 | .18250 | .15510 |
| .596 | 14.614 | -21150 | -21130 | -21080 | -21010 | -24450 | -24450 | -27020 | -30560 | .18240 | .15830 |
| .597 | 18.280 | -21330 | -21590 | -21160 | -21430 | -24990 | -24990 | -27240 | -30410 | .18360 | .15460 |
| .597 | 23.091 | -22470 | -22370 | -21920 | -22090 | -25110 | -25110 | -27530 | -31270 | .17940 | .15620 |
| | GRADIENT | .00094 | .00057 | .00067 | .00073 | .00043 | .00043 | .00155 | .00100 | -.00189 | -.00030 |

RUN NO. 346/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| .801 | -15.347 | -22300 | -22280 | -22150 | -22260 | -30110 | -30110 | -31550 | -31870 | .22330 | .19010 |
| .800 | -10.315 | -22540 | -21980 | -21770 | -21620 | -29830 | -29830 | -30900 | -31650 | .22850 | .19020 |
| .801 | -5.084 | -21790 | -21600 | -21990 | -21340 | -28790 | -28790 | -29430 | -31250 | .23050 | .19570 |
| .800 | -2.485 | -21630 | -21560 | -21740 | -21500 | -28950 | -28950 | -29760 | -30860 | .22910 | .19310 |
| .801 | .068 | -21250 | -21380 | -22040 | -21200 | -29120 | -29120 | -29750 | -30630 | .22630 | .19360 |
| .801 | 2.549 | -21900 | -22300 | -21410 | -22220 | -29320 | -29320 | -30450 | -31110 | .22470 | .19190 |
| .799 | 4.873 | -21590 | -21780 | -22440 | -22020 | -28750 | -28750 | -29680 | -30220 | .22580 | .19490 |
| .801 | 9.584 | -22000 | -20620 | -21000 | -22050 | -28570 | -28570 | -30570 | -31010 | .22870 | .19550 |
| .801 | 14.614 | -22160 | -22100 | -21710 | -22520 | -28880 | -28880 | -29630 | -31070 | .22900 | .19490 |
| .800 | 18.280 | -22900 | -23050 | -23010 | -23310 | -29210 | -29210 | -30210 | -31190 | .22870 | .19360 |
| .800 | 23.009 | -23430 | -23170 | -23410 | -23130 | -29350 | -29350 | -30530 | -31400 | .22650 | .19370 |
| | GRADIENT | .00022 | .00065 | .00058 | .00105 | .00015 | .00015 | .00020 | .00057 | -.00048 | .00014 |

DATE 10 MAR 80

OAI145 TABULATED FORCE DATA

PAGE 1793

AMES 118-1-11 OAI145A 01

(E2F084) (18 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = 25.000
 RN/L = 5.000

RUN NO. 352/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| .900 | -15.355 | -25160 | -24900 | -25900 | -25210 | -34940 | -34940 | -35560 | -35530 | .27110 | .23370 |
| .902 | -10.307 | -24400 | -24220 | -24140 | -24260 | -34440 | -34440 | -34440 | -35340 | .27440 | .23610 |
| .901 | -5.110 | -24040 | -24430 | -24000 | -24350 | -33960 | -33960 | -35650 | -35130 | .27140 | .23590 |
| .901 | -2.522 | -23830 | -23760 | -23300 | -23810 | -34160 | -34160 | -33910 | -34900 | .27070 | .23480 |
| .901 | .060 | -24550 | -23800 | -24030 | -23870 | -34030 | -34030 | -34180 | -34870 | .27170 | .23540 |
| .901 | 2.516 | -24080 | -23470 | -23970 | -24180 | -33820 | -33820 | -34200 | -35820 | .27400 | .23620 |
| .902 | 4.897 | -23780 | -24240 | -23840 | -23340 | -34490 | -34490 | -34370 | -34420 | .27200 | .23350 |
| .902 | 9.567 | -24600 | -24570 | -24260 | -24670 | -33870 | -33870 | -34180 | -35260 | .27430 | .23670 |
| .900 | 14.586 | -25320 | -24820 | -25220 | -25200 | -34770 | -34770 | -34890 | -35650 | .26950 | .23290 |
| .901 | 18.262 | -25450 | -25290 | -25500 | -25520 | -34440 | -34440 | -34560 | -35980 | .27180 | .23540 |
| .900 | 22.836 | -25980 | -26080 | -26180 | -25700 | -33940 | -33940 | -35200 | -35370 | .27420 | .23710 |
| | GRADIENT | .00023 | .00044 | .00065 | .00043 | .00030 | .00030 | .00057 | .00018 | .00026 | -.00012 |

RUN NO. 415/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|--------|---------|---------|---------|--------|--------|---------|---------|
| .950 | -14.747 | -27840 | -27520 | -27090 | -27550 | -37220 | -37220 | -37190 | -37650 | .31960 | .26950 |
| .951 | -10.691 | -26920 | -27270 | -27120 | -26540 | -35710 | -35710 | -36260 | -37080 | .32320 | .27420 |
| .952 | -5.344 | -26480 | -26890 | -27330 | -26910 | -35850 | -35850 | -36560 | -37060 | .32580 | .27490 |
| .950 | -2.760 | -26640 | -26440 | -26860 | -26630 | -36090 | -36090 | -36850 | -37520 | .32210 | .27250 |
| .951 | -.083 | -26880 | -26530 | -26880 | -26580 | -35980 | -35980 | -37150 | -37180 | .32130 | .27200 |
| .952 | 2.324 | -27110 | -26360 | -26790 | -26360 | -35800 | -35800 | -36460 | -37370 | .32150 | .27420 |
| .950 | 4.802 | -27240 | -27360 | -26530 | -27360 | -36450 | -36450 | -36340 | -36900 | .32100 | .27090 |
| .950 | 9.700 | -27690 | -26960 | -27900 | -27340 | -36320 | -36320 | -36670 | -37200 | .32050 | .27210 |
| .950 | 14.538 | -28280 | -27670 | -27930 | -27480 | -36170 | -36170 | -36940 | -37590 | .32080 | .27290 |
| .950 | 18.061 | -27160 | -27870 | -28010 | -27990 | -36490 | -36490 | -37020 | -37170 | .32090 | .27360 |
| .950 | 22.771 | -28360 | -28620 | -28590 | -28490 | -35770 | -35770 | -37580 | -37140 | .31990 | .27360 |
| | GRADIENT | -.00081 | -.00103 | .00043 | -.00078 | -.00035 | -.00035 | .00087 | .00067 | -.00012 | -.00010 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1794

AMES 118-1-11 0A145A 01

(E2F064) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = .000
 RN/L = 5.000

RUN NO. 362/ 0 RN/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.199 | -15.381 | -32270 | -32200 | -32351 | -32260 | -32170 | -32170 | -33000 | -34100 | 43370 | 37080 |
| 1.201 | -10.339 | -31880 | -32090 | -31960 | -31890 | -32460 | -32460 | -32720 | -33200 | 43450 | 37010 |
| 1.199 | -5.101 | -31320 | -31910 | -31350 | -31630 | -32130 | -32130 | -32430 | -33060 | 43360 | 36880 |
| 1.201 | -2.541 | -30980 | -30980 | -31080 | -30910 | -31520 | -31520 | -32070 | -32940 | 43510 | 37210 |
| 1.201 | -0.042 | -31040 | -30930 | -30700 | -31260 | -31320 | -31320 | -31940 | -32540 | 43490 | 37240 |
| 1.200 | 2.541 | -31240 | -31200 | -31440 | -31470 | -32200 | -32200 | -32670 | -33300 | 43300 | 36960 |
| 1.201 | 4.864 | -31080 | -31230 | -31510 | -31370 | -32170 | -32170 | -32610 | -32530 | 43400 | 37080 |
| 1.201 | 8.737 | -31860 | -31730 | -31760 | -31940 | -32530 | -32530 | -32940 | -33500 | 43290 | 37080 |
| 1.199 | 14.577 | -32720 | -33000 | -32880 | -32870 | -33070 | -33070 | -33710 | -34110 | 43290 | 37140 |
| 1.199 | 18.280 | -33000 | -32980 | -33150 | -33260 | -33350 | -33350 | -33820 | -34510 | 43220 | 37200 |
| 1.199 | 22.614 | -33250 | -33330 | -33430 | -33480 | -33960 | -33960 | -34280 | -34610 | 43090 | 36920 |
| GRADIENT | | -00021 | -00041 | -00082 | -00065 | -00115 | -00115 | -00096 | -00027 | -00021 | -00028 |

RUN NO. 379/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.300 | -15.381 | -33190 | -33190 | -33260 | -33280 | -33640 | -33640 | -33950 | -34390 | 45050 | 38610 |
| 1.299 | -10.291 | -32660 | -32790 | -32900 | -32830 | -33270 | -33270 | -33510 | -33990 | 44940 | 38440 |
| 1.299 | -5.160 | -31910 | -32030 | -32170 | -32040 | -32630 | -32630 | -32950 | -33500 | 44940 | 38480 |
| 1.299 | -2.531 | -31770 | -31820 | -31910 | -31930 | -32300 | -32300 | -32770 | -33370 | 44980 | 38500 |
| 1.299 | .077 | -31740 | -31690 | -31710 | -31730 | -32090 | -32090 | -32660 | -33260 | 44910 | 38540 |
| 1.298 | 2.524 | -31660 | -31700 | -31770 | -31740 | -32310 | -32310 | -32840 | -33230 | 44920 | 38420 |
| 1.298 | 4.814 | -31990 | -32180 | -32000 | -32080 | -32660 | -32660 | -32830 | -33290 | 44860 | 38450 |
| 1.297 | 9.601 | -32580 | -32620 | -32570 | -32490 | -33010 | -33010 | -33460 | -33930 | 44810 | 38460 |
| 1.298 | 14.633 | -33190 | -33390 | -33270 | -33220 | -33440 | -33440 | -33910 | -34360 | 45010 | 38560 |
| 1.297 | 18.253 | -33650 | -33650 | -33700 | -33650 | -34000 | -34000 | -34410 | -34780 | 44790 | 38400 |
| 1.297 | 22.679 | -33910 | -34080 | -34090 | -33940 | -34320 | -34320 | -34750 | -35100 | 44740 | 38420 |
| GRADIENT | | -00023 | -00043 | -00012 | -00017 | -00052 | -00052 | -00014 | -00011 | -00014 | -00011 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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(E2F054) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

ALPHA =
 ELEVON =
 BDFLAP =
 RN/L =

10.000 BETA = .000
 .000 AILRON = .000
 .000 SPDBRK = 25.000
 5.000

RUN NO. 371/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|
| 1.399 | -15.389 | -33000 | -33080 | -33160 | -33060 | -32310 | -32310 | -32450 | -32790 | 48520 | 45440 |
| 1.401 | -10.315 | -32690 | -32700 | -32670 | -32750 | -31920 | -31920 | -32100 | -32450 | 48710 | 45640 |
| 1.401 | -5.127 | -32270 | -32170 | -32290 | -32330 | -31630 | -31630 | -31800 | -32080 | 48730 | 45730 |
| 1.401 | -2.504 | -32060 | -32110 | -32110 | -32000 | -31470 | -31470 | -31680 | -31980 | 48770 | 45710 |
| 1.401 | .111 | -32070 | -32070 | -32080 | -32070 | -31460 | -31460 | -31640 | -32010 | 48750 | 45750 |
| 1.402 | 2.499 | -31990 | -32090 | -32060 | -32060 | -31480 | -31480 | -31610 | -32000 | 48760 | 45790 |
| 1.402 | 4.856 | -32330 | -32310 | -32300 | -32330 | -31540 | -31540 | -31850 | -32080 | 48830 | 45680 |
| 1.403 | 9.567 | -32450 | -32470 | -32530 | -32450 | -31680 | -31680 | -32000 | -32220 | 48700 | 45750 |
| 1.403 | 14.586 | -32830 | -32830 | -32830 | -32740 | -32050 | -32050 | -32160 | -32470 | 48600 | 45700 |
| 1.401 | 18.253 | -33250 | -33280 | -33280 | -33290 | -32260 | -32260 | -32480 | -32800 | 48720 | 45610 |
| 1.401 | 22.688 | -33470 | -33510 | -33510 | -33560 | -32420 | -32420 | -32700 | -32990 | 48660 | 45690 |
| 1.401 | GRADIENT | -00029 | -00027 | -00022 | -00040 | -00009 | -00009 | -00019 | -00012 | 00008 | -00002 |

AMES 118-1-11 OAI45A 01

(E2F065) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

ALPHA =
 ELEVON =
 BDFLAP =
 RN/L =

15.000 BETA = .000
 .000 AILRON = .000
 .000 SPDBRK = 25.000
 5.000

RUN NO. 326/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP325 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|
| .597 | -15.372 | -24050 | -24000 | -23780 | -23740 | -30400 | -30400 | -32320 | -34260 | 15710 | 13150 |
| .598 | -10.323 | -22810 | -22980 | -22550 | -23030 | -30260 | -30260 | -31700 | -33280 | 16100 | 13290 |
| .596 | -5.093 | -23470 | -23750 | -22510 | -23060 | -30420 | -30420 | -32720 | -34190 | 15530 | 12910 |
| .597 | -2.513 | -22460 | -22910 | -22770 | -22370 | -30130 | -30130 | -32670 | -33990 | 15750 | 13110 |
| .597 | .068 | -24010 | -23680 | -23660 | -23560 | -29910 | -29910 | -32420 | -33320 | 16010 | 13250 |
| .597 | 2.524 | -23270 | -23770 | -23390 | -23530 | -30660 | -30660 | -32580 | -33770 | 15570 | 12630 |
| .597 | 4.864 | -22770 | -23030 | -23110 | -22990 | -30090 | -30090 | -31410 | -33310 | 16000 | 13090 |
| .596 | 9.593 | -23740 | -23790 | -23480 | -23860 | -30610 | -30610 | -32610 | -33510 | 15490 | 12750 |
| .595 | 14.623 | -24170 | -23830 | -24460 | -24670 | -31090 | -31090 | -32850 | -33920 | 15680 | 12350 |
| .595 | 18.299 | -24120 | -24440 | -24220 | -24120 | -30160 | -30160 | -32810 | -34070 | 15840 | 13110 |
| .596 | 23.091 | -24750 | -24550 | -24390 | -24960 | -31430 | -31430 | -32020 | -34350 | 15490 | 12310 |
| .596 | GRADIENT | -00012 | -00021 | -00033 | -00078 | -00026 | -00026 | -00145 | -00065 | 00012 | -00028 |

DATE 10 MAR 80

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(E2F065) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8100 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 15.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BOFLAP = .000 SPDBRK = 25.000
 R/V/L = 5.000

RUN NO. 363/ 0 RN/L = 4.92 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1.199 | -15.389 | -33090 | -33200 | -33320 | -33290 | -33420 | -33420 | -33980 | -34510 | 43760 | 36580 |
| 1.199 | -10.315 | -32960 | -33270 | -33140 | -33010 | -33430 | -33430 | -34030 | -34360 | 43720 | 36640 |
| 1.201 | -5.110 | -32410 | -32650 | -32610 | -32520 | -33060 | -33060 | -33500 | -33890 | 43740 | 36730 |
| 1.201 | -2.504 | -32140 | -32300 | -32340 | -32440 | -32840 | -32840 | -33410 | -33810 | 43810 | 36870 |
| 1.200 | .008 | -32460 | -32420 | -32300 | -32460 | -33090 | -33090 | -33320 | -33930 | 43700 | 36710 |
| 1.200 | 2.507 | -32320 | -32490 | -32340 | -32540 | -33050 | -33050 | -33560 | -33990 | 43660 | 36730 |
| 1.200 | 4.873 | -32530 | -32770 | -32590 | -32640 | -33120 | -33120 | -33690 | -34290 | 43730 | 36760 |
| 1.200 | 9.618 | -32830 | -32860 | -32820 | -32850 | -33100 | -33100 | -33610 | -34040 | 43680 | 36930 |
| 1.199 | 14.596 | -33080 | -33080 | -33130 | -33330 | -33380 | -33380 | -33850 | -34310 | 43540 | 36950 |
| 1.199 | 22.670 | -33190 | -33350 | -33340 | -33630 | -34200 | -34200 | -34360 | -34490 | 43410 | 36630 |
| | GRADIENT | -0.00042 | -0.00060 | -0.00032 | -0.00028 | -0.00033 | -0.00033 | -0.00044 | -0.00061 | -0.00012 | -0.00013 |

RUN NO. 378/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1.293 | -15.372 | -33820 | -34150 | -34220 | -34070 | -33540 | -33540 | -34020 | -34280 | 46230 | 39270 |
| 1.295 | -10.331 | -34030 | -34290 | -34280 | -34280 | -33600 | -33600 | -33920 | -34370 | 46280 | 39270 |
| 1.296 | -5.160 | -33670 | -33820 | -33820 | -33750 | -33390 | -33390 | -33790 | -33940 | 46300 | 39400 |
| 1.296 | -2.577 | -33690 | -33800 | -33620 | -33910 | -33410 | -33410 | -33750 | -33850 | 46200 | 39240 |
| 1.296 | -.033 | -33530 | -33770 | -33820 | -33750 | -33240 | -33240 | -33690 | -34040 | 46250 | 39350 |
| 1.296 | 2.541 | -33690 | -33820 | -33790 | -33680 | -33280 | -33280 | -33660 | -34000 | 46200 | 39380 |
| 1.296 | 4.856 | -33970 | -33850 | -33890 | -33860 | -33370 | -33370 | -33790 | -34290 | 46150 | 39410 |
| 1.296 | 9.618 | -34140 | -34310 | -34190 | -34260 | -33740 | -33740 | -34110 | -34320 | 46110 | 39360 |
| 1.296 | 14.568 | -34550 | -34460 | -34500 | -34570 | -33890 | -33890 | -34230 | -34570 | 46120 | 39410 |
| 1.296 | 18.271 | -34690 | -34620 | -34690 | -34650 | -34100 | -34100 | -34350 | -34720 | 46130 | 39480 |
| 1.295 | 22.688 | -34910 | -34930 | -34850 | -34920 | -34320 | -34320 | -34430 | -34870 | 46050 | 39360 |
| | GRADIENT | -0.00039 | -0.00008 | -0.00031 | -0.00010 | -0.00004 | -0.00004 | -0.00003 | -0.00051 | -0.00008 | -0.00022 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA
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(E2F065) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

ALPHA =
ELEVON =
BDFLAP =
RN/L =

BETA =
AILRON =
SPDBRK =
RN/L =

RUN NO. 372/ 0 RN/L = 4.90 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.393 | -15.398 | -34120 | -34220 | -34270 | -34160 | -31820 | -31820 | -32030 | -32240 | .49670 | .45300 |
| 1.396 | -10.331 | -34130 | -34310 | -34330 | -34270 | -31650 | -31650 | -32000 | -32250 | .49560 | .45490 |
| 1.399 | -5.110 | -33350 | -33410 | -33400 | -33430 | -31110 | -31110 | -31390 | -31640 | .49700 | .45720 |
| 1.399 | -2.541 | -33240 | -33310 | -33290 | -33350 | -31160 | -31160 | -31330 | -31710 | .49470 | .45560 |
| 1.400 | .000 | -33300 | -33310 | -33390 | -33300 | -31110 | -31110 | -31360 | -31550 | .49560 | .45620 |
| 1.400 | 2.532 | -33310 | -33320 | -33370 | -33370 | -31190 | -31190 | -31430 | -31550 | .49400 | .45540 |
| 1.400 | 4.848 | -33420 | -33500 | -33560 | -33610 | -31210 | -31210 | -31540 | -31720 | .49590 | .45640 |
| 1.400 | 9.614 | -33600 | -33750 | -33620 | -33750 | -31370 | -31370 | -31800 | -31800 | .49570 | .45720 |
| 1.400 | 14.610 | -33920 | -33990 | -33910 | -34040 | -31420 | -31420 | -31970 | -31970 | .49560 | .45810 |
| 1.400 | 18.271 | -33930 | -34080 | -34120 | -34120 | -31500 | -31500 | -31830 | -31980 | .49470 | .45770 |
| 1.400 | 22.688 | -34160 | -34350 | -34200 | -34300 | -31670 | -31670 | -31940 | -32150 | .49490 | .45680 |
| 1.400 | GRADIENT | .00022 | .00023 | .00032 | .00034 | .00009 | .00009 | .00013 | .00001 | .00008 | .00006 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

BETA =
AILRON =
SPDBRK =
RN/L =

ELEVON =
BDFLAP =
RUDDER =
RN/L =

RUN NO. 330/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| .598 | -5.058 | -21360 | -21100 | -21250 | -21220 | -21760 | -21760 | -22320 | -22960 | -.04870 | -.03970 |
| .600 | .442 | -20100 | -20340 | -20620 | -20310 | -20450 | -20450 | -20680 | -20920 | .06330 | .06210 |
| .598 | 2.481 | -20550 | -20770 | -20840 | -20530 | -21180 | -21180 | -21610 | -22860 | .11280 | .09840 |
| .597 | 5.030 | -20990 | -20750 | -21040 | -21130 | -22660 | -22660 | -23540 | -25830 | .14430 | .13080 |
| .597 | 7.029 | -20620 | -20310 | -20690 | -20620 | -23470 | -23470 | -24300 | -27420 | .16420 | .14630 |
| .597 | 8.006 | -20580 | -20440 | -20700 | -20840 | -24070 | -24070 | -25590 | -28370 | .16580 | .14940 |
| .597 | 10.102 | -21160 | -20660 | -20990 | -20780 | -25650 | -25650 | -27540 | -31260 | .18050 | .14870 |
| .597 | 12.155 | -20880 | -21050 | -21570 | -21570 | -25590 | -25590 | -29330 | -32170 | .18230 | .15560 |
| .598 | 15.209 | -22890 | -22770 | -22800 | -23060 | -30910 | -30910 | -33390 | -34610 | .15840 | .12790 |
| .598 | GRADIENT | .00154 | .00147 | .00075 | .00075 | .00250 | .00250 | .00318 | .00664 | .01693 | .01242 |

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(E2F066) (16 JUL 77)

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(E2F056) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

BETA =
ATLRON =
SPDRK =
RN/L =

.000 ELEVON =
.000 BOFLAP =
25.000 RUDDER =
5.000

PARAMETRIC DATA

RUN NO. 347/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | | | | | | | | |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
| .797 | -4.994 | -22720 | -22490 | -22220 | -22550 | -24330 | -24330 | -24610 | -25030 | .00980 | .01650 |
| .799 | .011 | -21820 | -22030 | -21370 | -21910 | -23270 | -23270 | -23270 | -23870 | .11970 | .10900 |
| .800 | 2.066 | -21600 | -21550 | -21430 | -21660 | -23540 | -23540 | -24020 | -25110 | .15360 | .13980 |
| .796 | 5.052 | -21550 | -21780 | -22070 | -21700 | -25050 | -25050 | -25850 | -28150 | .18410 | .16210 |
| .796 | 7.101 | -21790 | -20780 | -21600 | -22170 | -26530 | -26530 | -26520 | -30700 | .20590 | .18050 |
| .798 | 8.135 | -20440 | -21310 | -21500 | -22160 | -27730 | -27730 | -29260 | -31030 | .20760 | .18290 |
| .796 | 10.194 | -22000 | -22360 | -22350 | -22290 | -30160 | -30160 | -31110 | -31770 | .22560 | .18900 |
| .795 | 12.242 | -23900 | -24110 | -24460 | -24400 | -33880 | -33880 | -35050 | -36280 | .22520 | .18510 |
| .792 | 15.322 | -27220 | -27930 | -28270 | -27240 | -37820 | -37820 | -39570 | -40460 | .21580 | .17680 |
| GRADIENT | | .00163 | .00125 | .00123 | .00126 | .00131 | .00131 | .00118 | .00034 | .02066 | .01765 |

RUN NO. 384/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | | | | | | | | |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
| .902 | -5.228 | -24750 | -24260 | -24230 | -24570 | -28120 | -28120 | -28810 | -29170 | .07340 | .08390 |
| .904 | .208 | -23470 | -22900 | -23120 | -23350 | -27710 | -27710 | -28360 | -29250 | .15650 | .15650 |
| .900 | 1.824 | -23530 | -23070 | -23810 | -23710 | -29370 | -29370 | -30460 | -31180 | .19510 | .17670 |
| .896 | 4.947 | -23580 | -23680 | -22940 | -23080 | -32230 | -32230 | -32460 | -32900 | .22920 | .19760 |
| .900 | 7.010 | -23410 | -23550 | -23450 | -24100 | -33660 | -33660 | -33910 | -33710 | .25010 | .21610 |
| .900 | 8.031 | -24110 | -23890 | -23510 | -23410 | -34290 | -34290 | -34790 | -35330 | .25700 | .22260 |
| .899 | 10.072 | -24230 | -24620 | -24870 | -24570 | -35210 | -35210 | -35470 | -36060 | .26800 | .22840 |
| .897 | 12.166 | -26080 | -25630 | -25220 | -26340 | -36350 | -36350 | -37980 | -38350 | .27190 | .23360 |
| .901 | 15.221 | -28850 | -27930 | -28770 | -29140 | -40970 | -40970 | -42200 | -43840 | .27310 | .23050 |
| GRADIENT | | .00021 | .00155 | .00055 | .00065 | .00880 | .00880 | .00782 | .00695 | .01197 | .00787 |

RUN NO. 411/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | | | | | | | | |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
| .951 | -4.966 | -29910 | -29190 | -29030 | -29110 | -39300 | -39300 | -39800 | -40970 | .14210 | .14210 |
| .949 | .123 | -28840 | -28270 | -28660 | -28340 | -36450 | -36450 | -37170 | -38400 | .22790 | .20590 |
| .951 | 2.163 | -28350 | -27780 | -27500 | -27800 | -36640 | -36640 | -36910 | -38890 | .25430 | .22830 |
| .948 | 5.189 | -27540 | -27130 | -26740 | -26480 | -34400 | -34400 | -35720 | -36180 | .28380 | .24690 |
| .949 | 7.280 | -26460 | -26670 | -26100 | -26690 | -35450 | -35450 | -35050 | -36530 | .30130 | .26080 |
| .947 | 8.303 | -26350 | -26870 | -27340 | -27670 | -36230 | -36230 | -36100 | -36420 | .30690 | .26420 |
| .944 | 10.361 | -27650 | -27890 | -26650 | -27520 | -36850 | -36850 | -36570 | -38390 | .31740 | .26880 |
| .949 | 12.390 | -29160 | -28710 | -29080 | -28530 | -39680 | -39680 | -39600 | -40880 | .32250 | .26700 |
| .948 | 15.423 | -32720 | -32450 | -32050 | -31500 | -42860 | -42860 | -43620 | -44010 | .31810 | .26310 |
| GRADIENT | | .00217 | .00195 | .00187 | .00178 | .00409 | .00409 | .00427 | .00333 | .01595 | .01218 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(E2F066) (16 JUL 77)

REFERENCE DATA

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 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
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PARAMETRIC DATA

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 ATLIRON = .000 BDFLAP = .000
 SPOBRK = 25.000 RUDDER = -5.000
 RN/L = 5.000

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.101 | -5.075 | -32700 | -32650 | -32610 | -32440 | -33150 | -33150 | -33240 | -34330 | .28110 | .29100 |
| 1.101 | -.018 | -32330 | -32270 | -32450 | -32180 | -32760 | -32760 | -33260 | -33820 | .34130 | .32590 |
| 1.102 | 2.028 | -32020 | -32410 | -31900 | -32320 | -32620 | -32620 | -33070 | -34010 | .38450 | .34200 |
| 1.100 | 5.120 | -33220 | -33100 | -33230 | -33550 | -35830 | -35830 | -36200 | -36920 | .38420 | .35290 |
| 1.097 | 7.174 | -34010 | -34070 | -34040 | -34200 | -34650 | -34650 | -35590 | -35430 | .40440 | .36570 |
| 1.097 | 8.209 | -34080 | -34070 | -33890 | -34190 | -35100 | -35100 | -35880 | -35980 | .40310 | .36800 |
| 1.095 | 10.240 | -34700 | -34700 | -34770 | -34940 | -36410 | -36410 | -37210 | -37670 | .41190 | .37090 |
| 1.093 | 12.259 | -35890 | -36190 | -35840 | -36370 | -38040 | -38040 | -38490 | -39270 | .42110 | .36780 |
| 1.093 | 15.317 | -38270 | -38520 | -38370 | -38420 | -39950 | -39950 | -40770 | -41470 | .41220 | .36360 |
| 1.099 | GRADIENT | .00152 | .00068 | .00269 | .00068 | .00068 | .00068 | .00093 | .00093 | .01134 | .00787 |

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.200 | -5.102 | -30250 | -30370 | -30320 | -30430 | -29450 | -29450 | -29560 | -30210 | .32280 | .34150 |
| 1.200 | -4.846 | -30100 | -30220 | -30280 | -30290 | -29300 | -29300 | -29370 | -29980 | .32560 | .34240 |
| 1.200 | -.057 | -30070 | -30070 | -30100 | -30010 | -29550 | -29550 | -29980 | -30650 | .37240 | .35090 |
| 1.198 | 2.512 | -30490 | -30390 | -30390 | -30450 | -30890 | -30890 | -31160 | -31870 | .38900 | .35220 |
| 1.198 | 5.186 | -31440 | -31320 | -31380 | -31480 | -31900 | -31900 | -32880 | -33220 | .40560 | .35980 |
| 1.196 | 7.158 | -31340 | -31470 | -31660 | -31980 | -31570 | -31570 | -31930 | -32340 | .41820 | .36210 |
| 1.199 | 8.199 | -31280 | -31460 | -31620 | -31720 | -31750 | -31750 | -32300 | -32790 | .42140 | .36690 |
| 1.198 | 10.271 | -31540 | -31480 | -31350 | -31290 | -32140 | -32140 | -32430 | -33360 | .43310 | .36870 |
| 1.199 | 12.262 | -30770 | -30990 | -30660 | -31230 | -32130 | -32130 | -32430 | -32680 | .43640 | .36760 |
| 1.199 | 15.287 | -32460 | -32680 | -32750 | -32680 | -33060 | -33060 | -33660 | -34130 | .43630 | .36690 |
| 1.198 | GRADIENT | .00045 | .00016 | .00008 | .00012 | .00195 | .00195 | .00229 | .00242 | .00876 | .00139 |

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.297 | -5.289 | -29810 | -29070 | -29040 | -28990 | -29460 | -29460 | -30260 | -30710 | .36000 | .38000 |
| 1.299 | -.381 | -29160 | -29270 | -29060 | -29170 | -29510 | -29510 | -29880 | -30400 | .38930 | .38740 |
| 1.296 | 2.284 | -29650 | -29510 | -29510 | -29390 | -30220 | -30220 | -30670 | -31160 | .41390 | .38570 |
| 1.294 | 4.753 | -30390 | -30270 | -30340 | -30700 | -31560 | -31560 | -31740 | -32550 | .42700 | .38030 |
| 1.293 | 6.872 | -31130 | -31280 | -31280 | -31270 | -31960 | -31960 | -32300 | -33050 | .44310 | .38010 |
| 1.294 | 7.890 | -31740 | -31980 | -31760 | -32240 | -32240 | -32240 | -32760 | -33390 | .44380 | .38130 |
| 1.294 | 10.031 | -32250 | -32470 | -32360 | -32310 | -32830 | -32830 | -32950 | -33550 | .44540 | .38010 |
| 1.282 | 12.008 | -33620 | -33950 | -33810 | -33960 | -34140 | -34140 | -34750 | -34730 | .46260 | .38130 |
| 1.289 | 15.076 | -33690 | -33760 | -33820 | -33870 | -33280 | -33280 | -33590 | -33930 | .46260 | .39190 |
| 1.294 | GRADIENT | .00239 | .00193 | .00248 | .00295 | .00398 | .00398 | .00361 | .00417 | .00737 | .00137 |

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REFERENCE DATA

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PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = -5.000
 RN/L = 5.000

RUN NO. 373/ 0 RN/L = 4.88 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.407 | -5.316 | -28930 | -28970 | -28920 | -28840 | -29070 | -29070 | -29420 | -29620 | .38240 | .41730 |
| 1.414 | -1.158 | -29660 | -29820 | -29810 | -29740 | -29790 | -29790 | -29900 | -30210 | .43780 | .43630 |
| 1.413 | 2.288 | -30490 | -30530 | -30390 | -30460 | -30730 | -30730 | -30900 | -31190 | .45090 | .45040 |
| 1.412 | 4.793 | -30680 | -30630 | -30570 | -30590 | -30930 | -30930 | -30980 | -31380 | .46410 | .44650 |
| 1.409 | 6.848 | -31170 | -31180 | -31250 | -31220 | -31220 | -31220 | -31440 | -31730 | .48750 | .44930 |
| 1.407 | 7.896 | -31580 | -31670 | -31620 | -31680 | -31440 | -31440 | -31690 | -32030 | .48080 | .44900 |
| 1.403 | 10.038 | -32220 | -32270 | -32290 | -32250 | -31620 | -31620 | -31770 | -32120 | .48340 | .45240 |
| 1.398 | 12.044 | -32800 | -32950 | -32980 | -32980 | -31820 | -31820 | -32080 | -32370 | .48680 | .45310 |
| 1.393 | 15.113 | -33480 | -33650 | -33620 | -33520 | -31510 | -31510 | -31750 | -31990 | .49650 | .45340 |
| | GRADIENT | -00205 | -00163 | -00153 | -00171 | -00230 | -00230 | -00217 | -00236 | .00531 | .00205 |

AMES 118-1-11 OAI45A 01

(E2F067) (16 JUL 77)

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PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = -5.000
 RN/L = 5.000

RUN NO. 327/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| .597 | -6.035 | -21540 | -21570 | -21470 | -21520 | -22980 | -22980 | -24000 | -25380 | .29020 | -.01380 |
| .596 | -1.878 | -20830 | -20590 | -20660 | -20950 | -22640 | -22640 | -23160 | -25830 | .19050 | -.08460 |
| .597 | -.828 | -20400 | -20110 | -20350 | -20230 | -22030 | -22030 | -22550 | -25330 | .16770 | .11450 |
| .597 | .042 | -20050 | -20360 | -20150 | -20390 | -22280 | -22280 | -23180 | -25480 | .14620 | .13380 |
| .596 | .433 | -20700 | -20630 | -20920 | -20730 | -22680 | -22680 | -23630 | -25720 | .13410 | .14080 |
| .596 | .939 | -20660 | -20560 | -20560 | -20560 | -22770 | -22770 | -23440 | -25930 | .12480 | .15280 |
| .596 | 2.032 | -20490 | -20750 | -20830 | -20920 | -22690 | -22690 | -23900 | -25660 | .10150 | .18100 |
| .596 | 3.092 | -21630 | -20990 | -20750 | -21540 | -22910 | -22910 | -23930 | -25950 | .07210 | .20550 |
| .596 | 4.133 | -21230 | -21280 | -21590 | -21570 | -22430 | -22430 | -24000 | -26210 | .05470 | .23220 |
| .596 | 6.186 | -22300 | -21940 | -21750 | -22920 | -23290 | -23290 | -24270 | -26450 | .00230 | .27280 |
| | GRADIENT | -00153 | -00151 | -00149 | -00183 | -00049 | -00049 | -00207 | -00098 | -.02301 | .02416 |

DATE 10 MAR 80

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(E2F067) (16 JUL 77)

REFERENCE DATA

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 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDDBRK = 25.000 RUDDER = -5.000
 RN/L = 5.000

RUN NO. 348/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| .798 | -6.086 | -22010 | -21480 | -21980 | -21860 | -24330 | -24330 | -25370 | -27210 | .33670 | .01420 |
| .799 | -1.873 | -21270 | -20850 | -21040 | -20780 | -23780 | -23780 | -24900 | -27290 | .23790 | .12070 |
| .799 | .799 | -21210 | -21080 | -21550 | -21380 | -24110 | -24110 | -25180 | -27290 | .21060 | .14530 |
| .799 | .046 | -20730 | -21180 | -20990 | -21310 | -24570 | -24570 | -25470 | -27220 | .18700 | .16470 |
| .799 | .461 | -21110 | -20500 | -21140 | -21030 | -24720 | -24720 | -25590 | -27850 | .18010 | .17590 |
| .798 | 1.022 | -21570 | -21080 | -21300 | -21810 | -24830 | -24830 | -25480 | -27740 | .16410 | .19090 |
| .800 | 2.083 | -21390 | -22160 | -21630 | -21270 | -25060 | -25060 | -26360 | -28390 | .14310 | .21600 |
| .799 | 3.148 | -21720 | -21660 | -22380 | -22430 | -25750 | -25750 | -26390 | -28360 | .11470 | .23960 |
| .799 | 4.189 | -22450 | -22770 | -22150 | -22410 | -25300 | -25300 | -25910 | -28200 | .09310 | .26940 |
| .796 | 6.267 | -23890 | -24200 | -23420 | -23720 | -26380 | -26380 | -27210 | -29860 | .03430 | .31710 |
| | GRADIENT | -00193 | -00300 | -00210 | -00256 | -00292 | -00292 | -00223 | -00210 | -.02382 | .02441 |

RUN NO. 385/ 0 RN/L = 5.06 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| .901 | -6.114 | -23630 | -23230 | -23030 | -23350 | -30220 | -30220 | -31890 | -32930 | .37630 | .05510 |
| .903 | -1.973 | -22410 | -21920 | -22290 | -22630 | -31880 | -31880 | -32160 | -33860 | .28350 | .15670 |
| .902 | .920 | -22420 | -22490 | -22030 | -22690 | -32080 | -32080 | -32830 | -33530 | .25890 | .18140 |
| .903 | .117 | -23030 | -23350 | -22850 | -22430 | -31250 | -31250 | -32000 | -32940 | .23760 | .20870 |
| .902 | .665 | -23290 | -22870 | -22320 | -23340 | -31820 | -31820 | -31990 | -33320 | .22390 | .22130 |
| .902 | 1.172 | -23070 | -22950 | -23120 | -23120 | -31960 | -31960 | -32210 | -32710 | .21120 | .23480 |
| .900 | 2.251 | -24260 | -23070 | -23470 | -23990 | -32330 | -32330 | -33400 | -33860 | .18280 | .26010 |
| .901 | 3.304 | -24730 | -24810 | -24240 | -24810 | -33420 | -33420 | -33990 | -33750 | .15960 | .28560 |
| .901 | 4.351 | -25210 | -25550 | -24790 | -24940 | -33690 | -33690 | -34630 | -34250 | .13820 | .31240 |
| .899 | 6.428 | -27110 | -26430 | -26800 | -26750 | -34240 | -34240 | -36260 | -36680 | .08920 | .36520 |
| | GRADIENT | -00483 | -00520 | -00435 | -00431 | -00317 | -00317 | -00390 | -00089 | -.02335 | .02459 |

RUN NO. 412/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| .951 | -6.107 | -25980 | -26210 | -26000 | -26460 | -33800 | -33800 | -34380 | -35450 | .43410 | .09550 |
| .950 | -1.939 | -25470 | -24890 | -25070 | -24610 | -33010 | -33010 | -34140 | -35040 | .33670 | .19890 |
| .950 | .950 | -25560 | -25660 | -25580 | -25680 | -33110 | -33110 | -34060 | -34660 | .31160 | .22680 |
| .950 | .046 | -26410 | -26660 | -27010 | -26740 | -33500 | -33500 | -34900 | -35250 | .28740 | .25160 |
| .951 | .587 | -26290 | -25990 | -26010 | -26090 | -33750 | -33750 | -34120 | -35280 | .27830 | .26600 |
| .951 | 1.105 | -26090 | -25260 | -25970 | -26270 | -34040 | -34040 | -35190 | -35940 | .26510 | .27800 |
| .950 | 2.163 | -26780 | -26060 | -26960 | -26740 | -34020 | -34020 | -34690 | -35790 | .24090 | .30550 |
| .950 | 3.206 | -28540 | -26410 | -27340 | -26570 | -34920 | -34920 | -35560 | -36220 | .21290 | .30550 |
| .950 | 4.247 | -28620 | -28470 | -28430 | -28480 | -35210 | -35210 | -37190 | -37260 | .19400 | .35890 |
| .950 | 6.325 | -30050 | -31130 | -30250 | -29960 | -37720 | -37720 | -37790 | -39540 | .14340 | .41020 |
| | GRADIENT | -00408 | -00383 | -00474 | -00464 | -00372 | -00372 | -00423 | -00362 | -.02328 | .02564 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(E2F067) (16 JUL 77)

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 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = -5.000
 RN/L = 5.000

RUN NO. 359/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 1.100 | -6.081 | -34780 | -34730 | -34720 | -34570 | -36820 | -36820 | -37330 | -38010 | 53300 | 21440 |
| 1.100 | -1.945 | -32540 | -33090 | -32490 | -32840 | -35690 | -35690 | -36620 | -37410 | 43430 | 30810 |
| 1.099 | -.905 | -32580 | -32680 | -32650 | -32950 | -35550 | -35550 | -36360 | -37260 | 41220 | 33500 |
| 1.100 | .168 | -32790 | -32620 | -33220 | -33180 | -35420 | -35420 | -36020 | -36940 | 39870 | 36000 |
| 1.101 | .674 | -32930 | -33140 | -32990 | -32960 | -34900 | -34900 | -35510 | -36270 | 37620 | 37340 |
| 1.100 | 1.182 | -32950 | -32970 | -32970 | -32970 | -34850 | -34850 | -35360 | -36070 | 36280 | 38440 |
| 1.101 | 2.224 | -33010 | -33020 | -32890 | -32770 | -34120 | -34120 | -34420 | -35750 | 34510 | 41430 |
| 1.100 | 3.264 | -32890 | -33190 | -33200 | -33050 | -34230 | -34230 | -34630 | -35620 | 32470 | 43880 |
| 1.100 | 4.302 | -33820 | -33700 | -33550 | -33990 | -35370 | -35370 | -35370 | -35600 | 30580 | 46770 |
| 1.100 | 6.367 | -34600 | -34840 | -34360 | -34270 | -35320 | -35320 | -35920 | -36640 | 25890 | 51380 |
| 1.100 | GRADIENT | -300160 | -300109 | -300135 | -300107 | -300309 | -300309 | -300309 | -300336 | -302071 | 302543 |

FUN NO. 365/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 1.199 | -6.167 | -32180 | -32100 | -32000 | -32040 | -32480 | -32480 | -32650 | -33060 | 54560 | 25960 |
| 1.201 | -2.034 | -31250 | -31320 | -31200 | -31280 | -32150 | -32150 | -32290 | -33190 | 45030 | 33120 |
| 1.199 | -.984 | -31050 | -31160 | -31150 | -31060 | -32050 | -32050 | -32400 | -33010 | 42830 | 33410 |
| 1.199 | .023 | -31450 | -31310 | -31370 | -31350 | -32180 | -32180 | -32430 | -33640 | 40710 | 35780 |
| 1.201 | .699 | -31220 | -31260 | -31180 | -31230 | -32060 | -32060 | -32460 | -33020 | 39520 | 37660 |
| 1.199 | 1.159 | -31340 | -31340 | -31650 | -31780 | -32200 | -32200 | -32530 | -32950 | 38470 | 38730 |
| 1.199 | 2.208 | -31210 | -31020 | -30940 | -31120 | -31770 | -31770 | -32080 | -32870 | 36720 | 41380 |
| 1.199 | 3.253 | -30940 | -31160 | -31260 | -30990 | -31620 | -31620 | -32160 | -32500 | 34770 | 43980 |
| 1.199 | 4.290 | -31430 | -31290 | -30880 | -31570 | -31560 | -31560 | -32290 | -33280 | 32660 | 46520 |
| 1.199 | 6.361 | -31650 | -31850 | -31710 | -32090 | -32080 | -32080 | -32460 | -33100 | 29290 | 51860 |
| 1.196 | GRADIENT | -300002 | -300013 | -300039 | -300018 | -300104 | -300104 | -300030 | -300059 | -301930 | 302462 |

RUN NO. 376/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 1.299 | -6.095 | -31330 | -31390 | -31350 | -31390 | -32610 | -32610 | -32980 | -33260 | 55020 | 31920 |
| 1.301 | -1.950 | -30240 | -30100 | -30200 | -30330 | -31590 | -31590 | -32050 | -32340 | 46640 | 36300 |
| 1.299 | -.898 | -29750 | -29830 | -30210 | -30270 | -31440 | -31440 | -31710 | -31980 | 44870 | 37020 |
| 1.297 | .149 | -30540 | -30630 | -30560 | -30670 | -31450 | -31450 | -31910 | -32460 | 42800 | 38170 |
| 1.296 | .656 | -30200 | -30400 | -30610 | -30440 | -31500 | -31500 | -31870 | -32260 | 41730 | 38990 |
| 1.297 | 1.194 | -30550 | -30670 | -30520 | -30740 | -31190 | -31190 | -31690 | -32380 | 40930 | 40280 |
| 1.297 | 2.257 | -30820 | -30770 | -30830 | -30840 | -31310 | -31310 | -31720 | -32310 | 39740 | 42430 |
| 1.297 | 3.313 | -31040 | -30950 | -31140 | -31080 | -31310 | -31310 | -31790 | -32230 | 38580 | 44590 |
| 1.296 | 4.356 | -31310 | -31330 | -31270 | -31350 | -30710 | -30710 | -31440 | -32660 | 37470 | 46940 |
| 1.296 | 6.423 | -30850 | -30900 | -30810 | -30840 | -30760 | -30760 | -31190 | -33100 | 34140 | 51630 |
| 1.294 | GRADIENT | -300211 | -300208 | -300181 | -300168 | -300101 | -300101 | -300064 | -300063 | -301455 | 301757 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(E2F067) (16 JUL 77)

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 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

ALPHA =
 AILRON =
 SPDBRK =
 RN/L =

5.000 ELEVON = .000
 .000 BDFLAP = .000
 25.000 RUDDER = -5.000
 5.000

PARAMETRIC DATA

RUN NO. 374/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|--------|
| 1.410 | -6.161 | -30000 | -30000 | -30020 | -30080 | -30450 | -30450 | -30490 | -30870 | .57270 | .34690 |
| 1.409 | -2.007 | -30550 | -30470 | -30450 | -30570 | -30840 | -30840 | -31140 | -31350 | .48820 | .42360 |
| 1.405 | -.947 | -30780 | -30720 | -30740 | -30650 | -31080 | -31080 | -31320 | -31700 | .47580 | .43280 |
| 1.405 | .107 | -30840 | -30830 | -30860 | -30790 | -31190 | -31190 | -31160 | -31660 | .46650 | .44430 |
| 1.404 | .674 | -30870 | -31000 | -30770 | -30850 | -30960 | -30960 | -31170 | -31640 | .45700 | .45030 |
| 1.403 | 1.187 | -30790 | -30840 | -30830 | -30890 | -30910 | -30910 | -31190 | -31520 | .45280 | .45280 |
| 1.402 | 2.248 | -31020 | -30940 | -31040 | -30970 | -30880 | -30880 | -31180 | -31620 | .44970 | .46350 |
| 1.403 | 3.304 | -30740 | -30940 | -30870 | -30840 | -30830 | -30830 | -30970 | -31360 | .42680 | .47690 |
| 1.402 | 4.355 | -30810 | -30700 | -30820 | -30750 | -30530 | -30530 | -30940 | -31220 | .40490 | .48890 |
| 1.400 | 6.145 | -30020 | -30250 | -30170 | -30300 | -29370 | -29370 | -29930 | -30080 | .34730 | .54520 |
| | GRADIENT | -0.00028 | -0.00038 | -0.00052 | -0.00036 | -0.00059 | -0.00059 | -0.00043 | -0.00039 | -.01234 | .01121 |

AMES 118-1-11 OAI45A 01

(E2F068) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

ALPHA =
 AILRON =
 SPDBRK =
 RN/L =

5.000 ELEVON = .000
 .000 BDFLAP = .000
 25.000 RUDDER = -22.800
 5.000

PARAMETRIC DATA

RUN NO. 328/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|
| .597 | -6.007 | -22200 | -22390 | -22610 | -22630 | -23320 | -23320 | -24530 | -26350 | .28980 | -.01140 |
| .597 | -1.850 | -21910 | -21880 | -21620 | -22000 | -23030 | -23030 | -24330 | -26370 | .19210 | .09060 |
| .597 | -.803 | -22680 | -21920 | -22410 | -21860 | -23730 | -23730 | -24270 | -26120 | .16510 | .11050 |
| .598 | .050 | -21700 | -22350 | -21970 | -22250 | -22940 | -22940 | -24080 | -26200 | .14870 | .13810 |
| .598 | .456 | -22490 | -22010 | -22010 | -22230 | -23880 | -23880 | -24380 | -26580 | .13420 | .14090 |
| .598 | .971 | -22320 | -22340 | -22370 | -22420 | -23910 | -23910 | -24920 | -26980 | .12360 | .15440 |
| .597 | 2.065 | -22400 | -22290 | -22120 | -22810 | -24190 | -24190 | -24780 | -26440 | .09920 | .17930 |
| .598 | 3.126 | -23010 | -22460 | -22720 | -22600 | -23900 | -23900 | -24630 | -26260 | .07290 | .20800 |
| .598 | 4.157 | -22820 | -22860 | -22840 | -23200 | -24400 | -24400 | -25230 | -26650 | .05090 | .26650 |
| .597 | 6.208 | -22840 | -23510 | -23150 | -22880 | -24760 | -24760 | -25470 | -27620 | .00020 | .27210 |
| | GRADIENT | -0.00185 | -0.00145 | -0.00164 | -0.00203 | -0.00199 | -0.00199 | -0.00150 | -0.00042 | -.02351 | .02311 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(E2F058) (16 JUL 77)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = -22.800
 RN/L = 5.000

RUN NO. 389/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| .900 | -6.085 | -25120 | -25080 | -24980 | -24620 | -30310 | -30310 | -31030 | -32220 | .39500 | .05040 |
| .901 | -1.905 | -24310 | -24350 | -25100 | -24550 | -32040 | -32040 | -32710 | -33640 | .28220 | .15810 |
| .900 | -.868 | -25450 | -25400 | -25160 | -25540 | -31900 | -31900 | -32260 | -33300 | .25800 | .18540 |
| .901 | .058 | -25260 | -25590 | -25320 | -24890 | -31780 | -31780 | -32290 | -32580 | .23690 | .20970 |
| .900 | .586 | -25280 | -24780 | -25200 | -24730 | -32240 | -32240 | -32180 | -33620 | .22250 | .22020 |
| .902 | 1.111 | -25630 | -25270 | -24860 | -25120 | -31520 | -31520 | -32440 | -31670 | .21630 | .23760 |
| .899 | 2.182 | -26390 | -26620 | -26800 | -25900 | -32130 | -32130 | -32830 | -34110 | .18710 | .26150 |
| .898 | 3.222 | -26960 | -26460 | -26930 | -26870 | -32850 | -32850 | -33210 | -34030 | .16020 | .28660 |
| .897 | 4.264 | -27640 | -27290 | -27220 | -27640 | -33760 | -33760 | -33960 | -34720 | .13320 | .31050 |
| .896 | 6.339 | -30530 | -29470 | -30100 | -30120 | -33800 | -33800 | -35270 | -35670 | .09260 | .36540 |
| GRADIENT | | -.00499 | -.00430 | -.00405 | -.00462 | -.00258 | -.00258 | -.00225 | -.00217 | -.02402 | .02470 |

RUN NO. 366/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| 1.201 | -6.039 | -33350 | -33450 | -33550 | -33570 | -33730 | -33730 | -34530 | -34840 | .54250 | .26230 |
| 1.200 | -1.911 | -32730 | -32790 | -32830 | -32980 | -33230 | -33230 | -33530 | -33770 | .44780 | .31500 |
| 1.199 | -.866 | -32980 | -33010 | -32900 | -32700 | -33160 | -33160 | -33500 | -34070 | .42420 | .33810 |
| 1.198 | .204 | -32650 | -32550 | -32850 | -33090 | -33600 | -33600 | -33790 | -34120 | .40230 | .36120 |
| 1.200 | .675 | -32580 | -32590 | -32490 | -32510 | -33100 | -33100 | -33610 | -34080 | .39480 | .37470 |
| 1.201 | 1.186 | -32220 | -32120 | -32450 | -32720 | -32780 | -32780 | -33230 | -33920 | .38590 | .38900 |
| 1.200 | 2.228 | -31740 | -32050 | -31920 | -32010 | -32380 | -32380 | -32960 | -33060 | .36780 | .41610 |
| 1.199 | 3.267 | -31950 | -32270 | -31970 | -32040 | -32510 | -32510 | -33100 | -33610 | .34630 | .43770 |
| 1.197 | 4.303 | -31710 | -32290 | -32270 | -32190 | -32410 | -32410 | -33060 | -33410 | .32510 | .46450 |
| 1.197 | 6.371 | -32370 | -32350 | -32410 | -32240 | -32500 | -32500 | -32870 | -33660 | .29600 | .51940 |
| GRADIENT | | .00211 | .00121 | .00153 | .00163 | .00173 | .00173 | .00115 | .00110 | -.01929 | .02430 |

RUN NO. 375/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| 1.402 | -6.101 | -31340 | -31370 | -31360 | -31520 | -31610 | -31610 | -31840 | -32070 | .57030 | .35040 |
| 1.408 | -1.935 | -32100 | -32020 | -31980 | -32030 | -32210 | -32210 | -32380 | -32590 | .48520 | .42360 |
| 1.407 | -.888 | -32320 | -32180 | -32140 | -32260 | -32340 | -32340 | -32420 | -32850 | .47260 | .43330 |
| 1.405 | .190 | -32530 | -32490 | -32480 | -32510 | -32320 | -32320 | -32540 | -32790 | .46520 | .44620 |
| 1.404 | .673 | -32550 | -32530 | -32500 | -32500 | -32280 | -32280 | -32480 | -32840 | .46040 | .44910 |
| 1.404 | 1.211 | -32500 | -32430 | -32430 | -32330 | -32110 | -32110 | -32380 | -32650 | .45410 | .45280 |
| 1.403 | 2.269 | -31930 | -32010 | -32010 | -32040 | -31690 | -31690 | -31860 | -32230 | .44790 | .46250 |
| 1.402 | 3.318 | -31790 | -31920 | -31780 | -31550 | -31430 | -31430 | -31670 | -32040 | .42690 | .47800 |
| 1.402 | 4.370 | -31800 | -31720 | -31820 | -31740 | -31310 | -31310 | -31520 | -31910 | .39950 | .49710 |
| 1.399 | 6.454 | -31010 | -31260 | -31140 | -30940 | -29870 | -29870 | -30040 | -30440 | .34710 | .54550 |
| GRADIENT | | .00092 | .00070 | .00062 | .00100 | .00179 | .00179 | .00166 | .00148 | -.01249 | .01111 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1805

AMES 118-1-11 OAI45A 01

(E2F069) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 BETA = 5.000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDRK = 25.000
 RN/L = 5.000

RUN NO. 322/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|--------|--------|---------|--------|---------|---------|
| .598 | -15.372 | -21950 | -22500 | -22670 | -22290 | -22020 | -22020 | -21950 | -22620 | -.02270 | .17610 |
| .597 | -10.323 | -22180 | -22300 | -22400 | -22110 | -21810 | -21810 | -21620 | -21720 | -.02770 | .17460 |
| .598 | -5.118 | -21390 | -21550 | -21740 | -21720 | -21170 | -21170 | -21210 | -21190 | -.02560 | .17580 |
| .597 | -2.541 | -21540 | -21380 | -21400 | -21350 | -21280 | -21280 | -21210 | -21570 | -.02560 | .17290 |
| .597 | .077 | -21660 | -21930 | -21190 | -21520 | -21140 | -21140 | -21220 | -21600 | -.02680 | .17360 |
| .597 | 2.524 | -21730 | -21660 | -21590 | -21520 | -21400 | -21400 | -21500 | -21400 | -.02920 | .17140 |
| .597 | 4.823 | -21760 | -21760 | -21830 | -21520 | -21110 | -21110 | -21180 | -21610 | -.02710 | .17360 |
| .597 | 9.601 | -22350 | -21870 | -21920 | -22140 | -21060 | -21060 | -21630 | -21510 | -.02620 | .17460 |
| .597 | 14.596 | -22180 | -22260 | -22300 | -22260 | -21580 | -21580 | -21420 | -21390 | -.02390 | .17260 |
| .597 | 18.271 | -22710 | -22810 | -22690 | -22680 | -21780 | -21780 | -21780 | -22280 | -.02790 | .17300 |
| .597 | 23.109 | -23590 | -23850 | -23570 | -23570 | -22250 | -22250 | -22290 | -22440 | -.02980 | .17190 |
| | GRADIENT | -.00030 | -.00037 | -.00068 | -.00021 | .00010 | .00010 | -.00009 | .00004 | -.00029 | -.00001 |

RUN NO. 349/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .901 | -15.347 | -28170 | -27630 | -27650 | -28000 | -34400 | -34400 | -35060 | -37160 | .06640 | .27540 |
| .903 | -10.323 | -27740 | -27760 | -27510 | -27580 | -33710 | -33710 | -33900 | -34440 | .07010 | .27780 |
| .902 | -5.110 | -26890 | -26890 | -26450 | -27010 | -32500 | -32500 | -34300 | -34610 | .06860 | .27700 |
| .901 | -2.522 | -27050 | -25960 | -26340 | -26580 | -33500 | -33500 | -33380 | -34380 | .06780 | .27470 |
| .901 | .000 | -26790 | -26700 | -26240 | -26370 | -31680 | -31680 | -33440 | -35370 | .06880 | .27730 |
| .902 | 2.491 | -26070 | -25970 | -25910 | -25690 | -32440 | -32440 | -33500 | -35070 | .06920 | .27670 |
| .902 | 4.873 | -25510 | -26110 | -25710 | -26200 | -32230 | -32230 | -32370 | -33110 | .06850 | .27590 |
| .902 | 8.576 | -42330 | -14350 | -05510 | -03120 | -32390 | -32390 | -32320 | .00000 | .06850 | .27500 |
| .901 | 14.614 | -26250 | -27170 | -26980 | -27140 | -31180 | -31180 | -32080 | -33700 | .06860 | .27600 |
| .901 | 18.271 | -27590 | -27330 | -27610 | -27570 | -31190 | -31190 | -33210 | -33020 | .07010 | .27570 |
| .901 | 22.873 | -27780 | -28200 | -27750 | -28030 | -31330 | -31330 | -32690 | -33070 | .07030 | .27480 |
| | GRADIENT | .00216 | .00011 | .00090 | .00075 | .00125 | .00125 | .00119 | .00163 | .00010 | .00013 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1806

AMES 118-1-11 OAI45A 01

(E2F070) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

BETA =
AILRON =
SPDBRK =
RN/L =

.000 ELEVON = .000
.000 BDFLAP = .000
.000 RUDDER = .000
5.000

PARAMETRIC DATA

RUN NO. 644/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .598 | -5.071 | -19630 | -19840 | -19560 | -19350 | -21130 | -21130 | -21420 | -22100 | -03640 | -03640 |
| .599 | -1.101 | -19630 | -19840 | -19560 | -19350 | -20070 | -20070 | -20230 | -20610 | -08390 | -08390 |
| .597 | 2.413 | -19750 | -19540 | -19680 | -19230 | -21330 | -21330 | -21610 | -22620 | -12640 | -12640 |
| .597 | 4.970 | -19680 | -19590 | -19640 | -19490 | -22930 | -22930 | -24220 | -25440 | -15400 | -12950 |
| .596 | 6.994 | -20110 | -19680 | -19950 | -19320 | -23980 | -23980 | -26150 | -28080 | -17530 | -14630 |
| .596 | 8.028 | -19880 | -19150 | -19810 | -19720 | -24030 | -24030 | -27050 | -29030 | -18040 | -15650 |
| .595 | 10.099 | -19960 | -20110 | -20350 | -20030 | -26150 | -26150 | -28730 | -31800 | -18480 | -14930 |
| .595 | 12.126 | -20530 | -20650 | -20630 | -21200 | -27120 | -27120 | -30090 | -34530 | -18740 | -15100 |
| .595 | 15.126 | -22880 | -22760 | -22570 | -22930 | -31770 | -31770 | -33850 | -34740 | -16340 | -12440 |
| .596 | GRADIENT | -00010 | -00112 | -00081 | -00059 | -00564 | -00564 | -00788 | -00953 | -01382 | -01201 |

RUN NO. 659/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .801 | -5.027 | -21400 | -21960 | -21320 | -21890 | -23940 | -23940 | -24280 | -24160 | -02310 | -02200 |
| .800 | -1.106 | -20660 | -20820 | -20510 | -20130 | -22560 | -22560 | -23500 | -23530 | -13360 | -11110 |
| .799 | 2.441 | -20480 | -20270 | -20480 | -20800 | -23680 | -23680 | -24600 | -25350 | -16750 | -14120 |
| .796 | 4.977 | -20920 | -20790 | -20690 | -21130 | -24770 | -24770 | -26240 | -27590 | -19430 | -16370 |
| .798 | 7.061 | -20890 | -21040 | -20820 | -20840 | -27350 | -27350 | -29380 | -30860 | -21590 | -18140 |
| .799 | 8.082 | -21340 | -20890 | -21680 | -20600 | -27930 | -27930 | -29780 | -31130 | -22220 | -18820 |
| .799 | 10.130 | -21780 | -21990 | -22080 | -22100 | -29980 | -29980 | -30880 | -32280 | -23290 | -18840 |
| .799 | 12.149 | -23040 | -23360 | -22970 | -23660 | -32720 | -32720 | -33260 | -34400 | -23570 | -18930 |
| .800 | 15.201 | -27000 | -26580 | -27130 | -27470 | -38930 | -38930 | -40140 | -40510 | -22040 | -17480 |
| .800 | GRADIENT | -00051 | -00006 | -00035 | -00197 | -00435 | -00435 | -00539 | -00799 | -01190 | -01035 |

RUN NO. 632/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .900 | -5.098 | -24290 | -25090 | -24640 | -24910 | -28680 | -28680 | -28920 | -30010 | -08830 | -08680 |
| .899 | -0.073 | -23240 | -23340 | -22490 | -22870 | -27390 | -27390 | -28540 | -29590 | -18290 | -16040 |
| .899 | 2.444 | -23530 | -23110 | -22660 | -23230 | -29740 | -29740 | -32250 | -32040 | -21770 | -18660 |
| .895 | 5.002 | -24150 | -23870 | -24790 | -24150 | -33620 | -33620 | -34340 | -36010 | -23660 | -20220 |
| .901 | 7.089 | -24410 | -24490 | -23660 | -24230 | -33540 | -33540 | -34330 | -34670 | -26230 | -22190 |
| .897 | 8.109 | -25180 | -25060 | -25330 | -25210 | -33890 | -33890 | -34610 | -35380 | -26500 | -22630 |
| .901 | 10.136 | -25220 | -24790 | -24790 | -24690 | -34930 | -34930 | -35190 | -37540 | -27540 | -23020 |
| .900 | 12.173 | -26770 | -26440 | -26990 | -26390 | -36880 | -36880 | -38250 | -37750 | -28080 | -23090 |
| .898 | 15.213 | -30620 | -29840 | -29440 | -29810 | -40490 | -40490 | -41930 | -42500 | -27880 | -22810 |
| .898 | GRADIENT | -00115 | -00091 | -00068 | -00143 | -00934 | -00934 | -01474 | -00973 | -01383 | -01041 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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(E2F070) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDELAP = .000
 SPDBRK = .000 RUDDER = .000
 RN/L = 5.000

| RUN NO. 623/ 0 | | RN/L = 4.98 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|--------|---------------------------------|--------|
| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 |
| .951 | -5.265 | -28620 | -28840 | -27790 | -28820 |
| .950 | -1.104 | -27390 | -27290 | -26990 | -27170 |
| .951 | 2.447 | -27040 | -26620 | -26820 | -27040 |
| .951 | 4.941 | -26080 | -24910 | -25010 | -25410 |
| .950 | 6.982 | -25190 | -23200 | -25240 | -25010 |
| .950 | 8.013 | -24940 | -25090 | -25080 | -24960 |
| .951 | 10.043 | -26040 | -25460 | -25450 | -25450 |
| .949 | 12.030 | -27680 | -27700 | -27500 | -27900 |
| .950 | 15.010 | -30760 | -30880 | -30310 | -27780 |
| | GRADIENT | .00259 | .00471 | .00391 | .00348 |
| | | | | | |
| | | CP237 | CP240 | CP243 | CP246 |
| | | -39570 | -39570 | -40620 | -41530 |
| | | -36280 | -36280 | -36880 | -37930 |
| | | -36470 | -36470 | -38280 | -38970 |
| | | -33710 | -33710 | -34630 | -35340 |
| | | -33520 | -33520 | -34460 | -35810 |
| | | -34550 | -34550 | -35170 | -35400 |
| | | -35840 | -35840 | -36460 | -36890 |
| | | -38410 | -38410 | -39410 | -38230 |
| | | -40860 | -40860 | -41930 | -42730 |
| | | .00507 | .00507 | .00442 | .00510 |
| | | | | | |
| | | CP12 | CP13 | CP12 | CP13 |
| | | .13460 | .13420 | .13460 | .13420 |
| | | .21980 | .19560 | .21980 | .19560 |
| | | .25360 | .22210 | .25360 | .22210 |
| | | .27930 | .24170 | .27930 | .24170 |
| | | .30000 | .25610 | .30000 | .25610 |
| | | .30260 | .26140 | .30260 | .26140 |
| | | .31210 | .26540 | .31210 | .26540 |
| | | .31540 | .26450 | .31540 | .26450 |
| | | .31540 | .26000 | .31540 | .26000 |
| | | .01180 | .00914 | .01180 | .00914 |

RUN NO. 622/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| RUN NO. 622/ 0 | | RN/L = 5.00 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|--------|---------------------------------|--------|
| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 |
| 1.101 | -5.091 | -32100 | -32000 | -32060 | -31950 |
| 1.103 | -.021 | -30930 | -30900 | -31140 | -31030 |
| 1.100 | 2.488 | -31410 | -31580 | -31300 | -31610 |
| 1.101 | 5.039 | -31750 | -31450 | -31630 | -31520 |
| 1.101 | 7.054 | -32150 | -32150 | -31780 | -31880 |
| 1.101 | 8.035 | -32350 | -32500 | -32550 | -32580 |
| 1.102 | 10.034 | -32860 | -32840 | -33120 | -33480 |
| 1.098 | 12.044 | -34800 | -34470 | -34760 | -34680 |
| 1.098 | 15.046 | -37690 | -37790 | -37750 | -37880 |
| | GRADIENT | .00191 | .00271 | .00064 | .00231 |
| | | | | | |
| | | CP237 | CP240 | CP243 | CP246 |
| | | -32880 | -32880 | -33420 | -33950 |
| | | -31770 | -31770 | -32230 | -32530 |
| | | -32670 | -32670 | -33230 | -33880 |
| | | -34250 | -34250 | -34660 | -35660 |
| | | -32930 | -32930 | -33410 | -33500 |
| | | -33480 | -33480 | -34130 | -34240 |
| | | -35120 | -35120 | -35440 | -36090 |
| | | -37080 | -37080 | -37800 | -38530 |
| | | -39840 | -39840 | -40620 | -41110 |
| | | .00359 | .00359 | .00359 | .00538 |
| | | | | | |
| | | CP12 | CP13 | CP12 | CP13 |
| | | .29380 | .29420 | .29380 | .29420 |
| | | .35580 | .33180 | .35580 | .33180 |
| | | .37710 | .34230 | .37710 | .34230 |
| | | .39650 | .35630 | .39650 | .35630 |
| | | .41600 | .36960 | .41600 | .36960 |
| | | .42020 | .37390 | .42020 | .37390 |
| | | .42160 | .37420 | .42160 | .37420 |
| | | .42090 | .37070 | .42090 | .37070 |
| | | .42000 | .36240 | .42000 | .36240 |
| | | .00849 | .00419 | .00849 | .00419 |

RUN NO. 609/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| RUN NO. 609/ 0 | | RN/L = 4.97 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|--------|---------------------------------|--------|
| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 |
| 1.203 | -5.074 | -28420 | -28690 | -28560 | -28680 |
| 1.201 | -.068 | -28670 | -28740 | -28840 | -28800 |
| 1.200 | 2.489 | -29050 | -29030 | -28920 | -28890 |
| 1.201 | 4.946 | -29580 | -29800 | -29990 | -29890 |
| 1.199 | 7.017 | -30470 | -30720 | -30500 | -30430 |
| 1.198 | 8.065 | -30510 | -31060 | -31090 | -31030 |
| 1.201 | 10.011 | -30110 | -29860 | -30180 | -30340 |
| 1.201 | 11.969 | -30130 | -30540 | -30170 | -30360 |
| 1.198 | 14.954 | -31850 | -32040 | -31990 | -31210 |
| | GRADIENT | .00181 | .00211 | .00228 | .00216 |
| | | | | | |
| | | CP237 | CP240 | CP243 | CP246 |
| | | -28500 | -28500 | -28740 | -29100 |
| | | -28600 | -28600 | -29120 | -29750 |
| | | -29570 | -29570 | -30120 | -30830 |
| | | -30440 | -30440 | -31340 | -31620 |
| | | -31110 | -31110 | -30900 | -31200 |
| | | -31320 | -31320 | -31250 | -32200 |
| | | -30980 | -30980 | -31920 | -31920 |
| | | -31280 | -31280 | -31340 | -32200 |
| | | -32360 | -32360 | -33000 | -33520 |
| | | .00367 | .00367 | .00442 | .00373 |
| | | | | | |
| | | CP12 | CP13 | CP12 | CP13 |
| | | .34110 | .34780 | .34110 | .34780 |
| | | .38690 | .35290 | .38690 | .35290 |
| | | .40300 | .35600 | .40300 | .35600 |
| | | .41890 | .36390 | .41890 | .36390 |
| | | .43080 | .36300 | .43080 | .36300 |
| | | .43150 | .36640 | .43150 | .36640 |
| | | .44010 | .37270 | .44010 | .37270 |
| | | .44390 | .37220 | .44390 | .37220 |
| | | .44270 | .36600 | .44270 | .36600 |
| | | .00638 | .00219 | .00638 | .00219 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

AMES 118-1-11 OAI45A 01

(E2F070) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA =
AILRON =
SPDBRK =
RN/L =

ELEVON = .000
BDFLAP = .000
RUDDER = .000
5.000

RUN NO. 600/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------|--------|
| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
| 1.404 | -5.046 | -27470 | -27710 | -27600 | -27660 | -28200 | -28200 | -28500 | -29010 | .40080 | .42820 |
| 1.405 | -.022 | -27850 | -27870 | -27780 | -27700 | -28040 | -28040 | -28460 | -28620 | .44660 | .43780 |
| 1.401 | 2.505 | -28540 | -28500 | -28500 | -28790 | -29240 | -29240 | -29490 | -30140 | .45800 | .44140 |
| 1.401 | 5.096 | -29270 | -29330 | -29520 | -29420 | -29840 | -29840 | -29570 | -30400 | .48320 | .44570 |
| 1.399 | 7.119 | -30570 | -30570 | -30570 | -30540 | -30710 | -30710 | -30910 | -31340 | .49510 | .45090 |
| 1.401 | 8.153 | -30630 | -30600 | -30760 | -30760 | -30890 | -30890 | -31120 | -31420 | .49140 | .46060 |
| 1.399 | 10.183 | -31140 | -31150 | -31220 | -31260 | -31200 | -31200 | -31320 | -31800 | .49620 | .45890 |
| 1.401 | 12.206 | -31770 | -31950 | -31910 | -31910 | -31420 | -31420 | -31630 | -32040 | .50220 | .45250 |
| 1.399 | 15.225 | -32580 | -32730 | -32650 | -32730 | -31320 | -31320 | -31550 | -31910 | .50470 | .45210 |
| | GRADIENT | -0.00273 | -0.00249 | -0.00285 | -0.00431 | -0.00475 | -0.00475 | -0.00408 | -0.00601 | .00451 | .00142 |

(E2F071) (06 MAR 80)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA =
AILRON =
SPDBRK =
RN/L =

ELEVON = .000
BDFLAP = .000
RUDDER = .000
5.000

RUN NO. 882/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | |
|------|----------|----------|--------|--------|
| MACH | ALPHA | CP240 | CP12 | CP13 |
| .597 | -5.251 | -21050 | -07510 | -01150 |
| .597 | -.269 | -19820 | .03720 | .10920 |
| .597 | 2.315 | -21070 | .07560 | .15180 |
| .596 | 4.945 | -22430 | .10250 | .18650 |
| .598 | 8.077 | -24530 | .12240 | .20300 |
| .597 | 10.089 | -25880 | .12870 | .20540 |
| .595 | 12.104 | -27460 | .12600 | .20610 |
| .597 | 15.112 | -31830 | .09650 | .19140 |
| .597 | 17.040 | -34090 | .07760 | .17920 |
| .595 | GRADIENT | -0.00501 | .04070 | .14600 |
| | | | | .01482 |

DATE 10 MAR 80

OAI145 TABULATED FORCE DATA

PAGE 1809

(E2F071) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = .000 RUDDER = .000
 RN/L = 5.000

RUN NO. 883/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .800 | -5.269 | -.23740 | -.01320 | .05070 |
| .800 | -.254 | -.22700 | .08180 | .15270 |
| .800 | 2.307 | -.23690 | .11720 | .19090 |
| .798 | 4.928 | -.24940 | .14000 | .21870 |
| .800 | 8.056 | -.28610 | .16680 | .23770 |
| .802 | 10.090 | -.29120 | .18010 | .25500 |
| .797 | 12.103 | -.34220 | .17770 | .24920 |
| .794 | 15.117 | -.40340 | .15310 | .23860 |
| .800 | 17.088 | -.43630 | .14220 | .23460 |
| .798 | 19.033 | -.46160 | .11540 | .21520 |
| | GRADIENT | -.00432 | .01122 | .01273 |

RUN NO. 884/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|--------|--------|
| .900 | -5.277 | -.31410 | .04620 | .11430 |
| .900 | -.267 | -.30890 | .12770 | .19810 |
| .902 | 2.326 | -.31170 | .16560 | .23520 |
| .901 | 4.934 | -.32260 | .19420 | .26280 |
| .899 | 8.069 | -.34440 | .21530 | .28270 |
| .901 | 10.114 | -.35390 | .22510 | .29370 |
| .900 | 12.150 | -.39130 | .22400 | .28980 |
| .901 | 15.130 | -.43670 | .21210 | .28860 |
| .901 | 17.119 | -.46670 | .20050 | .28250 |
| .903 | 19.079 | -.47340 | .17970 | .27240 |
| | GRADIENT | -.00264 | .01278 | .01244 |

RUN NO. 885/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|--------|--------|
| .950 | -5.254 | -.37790 | .09910 | .16610 |
| .948 | -.303 | -.34820 | .16930 | .23810 |
| .951 | 2.290 | -.36470 | .20350 | .26850 |
| .952 | 4.944 | -.33140 | .22680 | .29260 |
| .952 | 8.092 | -.35640 | .24820 | .31530 |
| .952 | 10.143 | -.38430 | .25370 | .32150 |
| .950 | 12.153 | -.39930 | .25740 | .32320 |
| .950 | 15.165 | -.44710 | .25010 | .31820 |
| .951 | 17.120 | -.45800 | .23370 | .31740 |
| .950 | 19.066 | -.46140 | .22280 | .30670 |
| | GRADIENT | .00324 | .01095 | .01038 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1810

AMES 118-1-11 OAI45A 01

(E2F072) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

ALPHA =
 AILRON =
 SPDBRK =
 RN/L =

ELEVON = .000
 BOFLAP = .000
 RUDDER = .000
 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 645/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|----------|----------|----------|----------|---------|---------|---------|---------|---------|---------|
| .599 | -6.190 | -1.19910 | -2.0120 | -2.0030 | -2.0150 | -2.0900 | -2.0900 | -2.1250 | -2.1580 | .20470 | -.05440 |
| .598 | -2.097 | -1.19600 | -1.19550 | -1.19520 | -1.19620 | -2.0870 | -2.0870 | -2.0610 | -2.1180 | .12300 | .02170 |
| .597 | -1.053 | -1.19580 | -1.19580 | -1.19390 | -1.19750 | -2.0110 | -2.0110 | -2.0820 | -2.0680 | .10380 | .04780 |
| .597 | .019 | -1.19450 | -1.19330 | -1.19210 | -1.19310 | -2.0330 | -2.0330 | -2.0520 | -2.0500 | .08310 | .06570 |
| .597 | .537 | -1.19290 | -1.19650 | -1.19480 | -1.19550 | -2.0510 | -2.0510 | -2.0600 | -2.0600 | .07370 | .07520 |
| .597 | 1.056 | -1.19550 | -1.19670 | -1.19770 | -1.19530 | -2.0720 | -2.0720 | -2.0760 | -2.1050 | .06150 | .08420 |
| .597 | 2.113 | -1.19510 | -1.19930 | -1.19600 | -2.0100 | -2.0670 | -2.0670 | -2.0430 | -2.0860 | .04090 | .10600 |
| .597 | 3.153 | -2.0180 | -1.19890 | -2.0030 | -2.0590 | -2.0410 | -2.0410 | -2.0700 | -2.2070 | .02200 | .12970 |
| .597 | 4.186 | -2.0660 | -2.0690 | -2.0640 | -2.0590 | -2.0950 | -2.0950 | -2.1110 | -2.1260 | .00270 | .14390 |
| .597 | 6.244 | -2.0910 | -2.0740 | -2.0810 | -2.01070 | -2.0720 | -2.0720 | -2.0670 | -2.1000 | -.03430 | .19110 |
| .597 | GRADIENT | -.00157 | -.00159 | -.00173 | -.00145 | -.00041 | -.00041 | -.00041 | -.00026 | -.01932 | .01945 |

RUN NO. 633/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|----------|---------|---------|----------|----------|----------|----------|---------|--------|
| .900 | -6.258 | -2.2610 | -2.2620 | -2.2550 | -2.2760 | -2.2640 | -2.2640 | -2.26910 | -2.27960 | .30830 | .02850 |
| .902 | -2.120 | -2.3020 | -2.3030 | -2.3040 | -2.2560 | -2.27020 | -2.27020 | -2.27670 | -2.29370 | .22720 | .11660 |
| .900 | -1.061 | -2.3250 | -2.3210 | -2.3180 | -2.3040 | -2.2670 | -2.2670 | -2.27960 | -2.29780 | .20580 | .13660 |
| .900 | .023 | -2.4020 | -2.3330 | -2.3730 | -2.3520 | -2.28210 | -2.28210 | -2.29160 | -2.29830 | .18280 | .15850 |
| .900 | .545 | -2.4130 | -2.4060 | -2.3420 | -2.3490 | -2.27650 | -2.27650 | -2.29170 | -2.29620 | .17430 | .17280 |
| .899 | 1.069 | -2.4190 | -2.3950 | -2.4300 | -2.4570 | -2.29350 | -2.29350 | -3.0150 | -3.0700 | .15980 | .18030 |
| .899 | 2.137 | -2.5780 | -2.29420 | -2.4920 | -2.4920 | -3.0390 | -3.0390 | -3.1780 | -3.1970 | .13960 | .20360 |
| .899 | 3.189 | -2.6800 | -2.6110 | -2.6110 | -2.6570 | -3.0680 | -3.0680 | -3.2740 | -3.1820 | .11850 | .22650 |
| .899 | 4.232 | -2.5760 | -2.6120 | -2.6900 | -2.7320 | -3.1750 | -3.1750 | -3.1220 | -3.3740 | .09800 | .24700 |
| .897 | 6.311 | -2.8520 | -2.7740 | -2.7860 | -2.8380 | -3.4450 | -3.4450 | -3.4970 | -3.5300 | .05740 | .29100 |
| .897 | GRADIENT | -.00580 | -.00599 | -.00679 | -.00797 | -.00773 | -.00773 | -.00778 | -.00666 | -.02043 | .02073 |

RUN NO. 626/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|----------|---------|---------|---------|---------|---------|--------|
| .949 | -6.354 | -2.6610 | -2.5960 | -2.6340 | -2.25780 | -3.0220 | -3.0220 | -3.1260 | -3.2030 | .34700 | .06630 |
| .954 | -2.114 | -2.6270 | -2.5940 | -2.5390 | -2.5570 | -3.4140 | -3.4140 | -3.5190 | -3.6320 | .27090 | .15810 |
| .951 | -1.058 | -2.7340 | -2.7420 | -2.7190 | -2.7520 | -3.5320 | -3.5320 | -3.6570 | -3.7730 | .24510 | .17630 |
| .950 | .024 | -2.7340 | -2.7390 | -2.7350 | -2.6820 | -3.5860 | -3.5860 | -3.7000 | -3.8080 | .22150 | .19790 |
| .950 | .545 | -2.7670 | -2.7490 | -2.7390 | -2.7670 | -3.6070 | -3.6070 | -3.7440 | -3.8410 | .21150 | .20920 |
| .951 | 1.067 | -2.7400 | -2.7460 | -2.7480 | -2.7750 | -3.6350 | -3.6350 | -3.6930 | -3.8310 | .20060 | .21980 |
| .950 | 2.135 | -2.8060 | -2.7810 | -2.7910 | -2.7710 | -3.6820 | -3.6820 | -3.7500 | -3.8760 | .17970 | .24070 |
| .950 | 3.186 | -2.8410 | -2.8440 | -2.8290 | -2.8480 | -3.6750 | -3.6750 | -3.8030 | -3.8460 | .15770 | .26520 |
| .949 | 4.233 | -2.9220 | -2.8980 | -2.8970 | -2.9000 | -3.7990 | -3.7990 | -3.8320 | -3.9410 | .13760 | .28250 |
| .946 | 6.317 | -3.0630 | -3.0180 | -3.0510 | -3.0560 | -3.8370 | -3.8370 | -3.9070 | -4.0070 | .09830 | .32720 |
| .946 | GRADIENT | -.00393 | -.00390 | -.00454 | -.00454 | -.00516 | -.00516 | -.00424 | -.00379 | -.02078 | .02004 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

AMES 118-1-11 0A145A 01

PAGE 1811

(E2F07?) (08 JUL 77)

REFERENCE DATA

| | | | | | | | | |
|---|-------|---|-----------|--------|------|---|-----------|--------|
| = | SREF | = | 2690.0000 | SQ.FT. | YMRP | = | 1076.6800 | IN. X0 |
| = | LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. Y0 |
| = | BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. Z0 |
| = | SCALE | = | .0500 | | | | | |

| | | | | | |
|--------|---|-------|--------|---|------|
| ALPHA | = | .000 | ELEVON | = | .000 |
| ATLRON | = | .000 | BOFLAP | = | .000 |
| SPDBRK | = | .000 | RUDDER | = | .000 |
| RN/L | = | 5.000 | | | |

PARAMETRIC DATA

| | | | | | | |
|---------|--------|--------|------|---------------------|--------|------|
| RUN NO. | 614/ 0 | RN/L = | 5.06 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|---------|--------|--------|------|---------------------|--------|------|

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP13 | CP12 |
|----------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.203 | -6.264 | -29680 | -29870 | -30010 | -29880 | -30860 | -30860 | -31330 | -31930 | -50060 | -26330 |
| 1.206 | -2.118 | -28390 | -28490 | -28510 | -28360 | -29060 | -29060 | -29260 | -29720 | -42440 | -31580 |
| 1.203 | -1.060 | -28310 | -28680 | -28510 | -28440 | -28320 | -28320 | -28740 | -29310 | -33540 | -35520 |
| 1.203 | .023 | -28870 | -28680 | -28820 | -28810 | -28650 | -28650 | -29190 | -29710 | -38590 | -36350 |
| 1.202 | .543 | -28920 | -28820 | -28910 | -28940 | -28910 | -28910 | -29460 | -29850 | -37660 | -36350 |
| 1.202 | 1.066 | -28800 | -28920 | -28850 | -28870 | -28720 | -28720 | -29250 | -29700 | -36790 | -37500 |
| 1.203 | 2.133 | -28820 | -28810 | -28790 | -28730 | -28320 | -28320 | -28990 | -29690 | -35130 | -39730 |
| 1.203 | 3.186 | -29220 | -29290 | -28930 | -29050 | -28690 | -28690 | -28770 | -29210 | -33170 | -41650 |
| 1.203 | 4.234 | -29270 | -29260 | -29104 | -29260 | -28550 | -28550 | -29100 | -28900 | -31590 | -43660 |
| 1.198 | 6.321 | -30370 | -30340 | -29980 | -30270 | -28510 | -28510 | -28270 | -28630 | -29040 | -47760 |
| GRADIENT | | -001165 | -00123 | -00080 | -00126 | 00002 | 00002 | 00027 | 00096 | -01715 | 01914 |

REFERENCE DATA

| | IN. | YO. | IN. | YO. | IN. | YO. |
|------------------|-----|-----|-----|-----|-----------|--------|
| 2690.0000 SQ.FT. | | | | | 1075.6800 | IN. X0 |
| 474.8100 INCHES | | | | | .0000 | IN. Y0 |
| 936.6800 INCHES | | | | | 375.0000 | IN. Z0 |
| SCALE = .0500 | | | | | | |

ALPHA
A I L R O N
S P O B R K
R N / L

PARAMETRIC DATA

AMES 118-1-11 0A145A 01

(E2F073) (08 JUL 77)

| | | | | | | |
|---------|--------|--------|------|---------------------|--------|------|
| 81IN NO | 546/ 0 | RN/L = | 4.98 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|---------|--------|--------|------|---------------------|--------|------|

| | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MACH | | | | | | | | | | | |
| .597 | -6.049 | -20690 | -20930 | -20380 | -20880 | -22790 | -22790 | -24650 | -25790 | 30170 | - |
| .597 | -1.927 | -19620 | -19910 | -19610 | -19790 | -22910 | -22910 | -24130 | -25620 | 20620 | .08300 |
| .598 | -879 | -19680 | -19720 | -19610 | -22670 | -22670 | -22670 | -23640 | -25620 | 17980 | .11010 |
| .598 | .026 | -19510 | -19480 | -19410 | -19340 | -22650 | -22650 | -23890 | -25630 | 15880 | .13090 |
| .598 | .503 | -19540 | -19510 | -19680 | -19560 | -23100 | -23100 | -24160 | -25730 | 14600 | .14100 |
| .598 | 1.024 | -19210 | -19850 | -19680 | -19420 | -22420 | -22420 | -24070 | -26210 | 13270 | .15870 |
| .598 | 2.095 | -19710 | -19970 | -20110 | -19800 | -22870 | -22870 | -23970 | -26210 | 10740 | .18380 |
| .598 | 3.143 | -20040 | -20190 | -20350 | -20300 | -23140 | -23140 | -24200 | -26010 | 08030 | .20740 |
| .598 | 4.177 | -20570 | -21020 | -21200 | -20360 | -23380 | -23380 | -24670 | -26280 | 06080 | .23010 |
| .598 | 6.236 | -21310 | -21070 | -21100 | -20880 | -23550 | -23550 | -24540 | -26430 | 00980 | .28190 |
| GRADIENT | | | | | | | | | | | |
| .598 | -00164 | -30115 | -30115 | -00200 | -00130 | -00087 | -00087 | -00097 | -00113 | -02400 | .02427 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1812

AMES 118-1-11 OAI45A 01

(E2F073) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPOBRK = .000 RUDDER = .000
 RN/L = 5.000

RUN NO. 660/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| .799 | -6.105 | -21200 | -21080 | -20950 | -21270 | -25030 | -25030 | -26020 | -27140 | .34640 | .01310 |
| .801 | -1.953 | -20460 | -20290 | -20010 | -20210 | -24730 | -24730 | -26000 | -27320 | .24840 | .11530 |
| .799 | .038 | -20330 | -20550 | -20340 | -20210 | -24890 | -24890 | -26270 | -26870 | .22090 | .14090 |
| .800 | .664 | -20600 | -20300 | -20390 | -20580 | -24790 | -24790 | -26180 | -27150 | .19600 | .16480 |
| .799 | 1.166 | -19800 | -19970 | -19890 | -20380 | -24660 | -24660 | -26320 | -27370 | .18670 | .18370 |
| .799 | 2.204 | -20880 | -20960 | -20880 | -21410 | -25200 | -25200 | -26640 | -28040 | .17330 | .19340 |
| .799 | 3.246 | -21160 | -21050 | -20900 | -20830 | -25210 | -25210 | -26090 | -28260 | .14410 | .22150 |
| .799 | 4.286 | -20900 | -21880 | -21510 | -21240 | -25410 | -25410 | -26870 | -27860 | .12060 | .24730 |
| .799 | 6.353 | -21840 | -21560 | -21820 | -21770 | -26000 | -26000 | -27480 | -28550 | .09790 | .26900 |
| .797 | GRADIENT | -22080 | -22710 | -22630 | -21930 | -26560 | -26560 | -27540 | -28680 | .04340 | .32180 |
| | | -00214 | -00260 | -00295 | -00245 | -00187 | -00187 | -00192 | -00235 | -.02415 | .02498 |

RUN NO. 634/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| .899 | -6.153 | -22380 | -22700 | -22560 | -22300 | -29600 | -29600 | -30220 | -31450 | .38960 | .05180 |
| .902 | -2.033 | -22510 | -21450 | -21280 | -21830 | -30990 | -30990 | -31710 | -33070 | .30160 | .15900 |
| .900 | .992 | -23050 | -22670 | -22520 | -23370 | -32180 | -32180 | -32610 | -33930 | .27180 | .18200 |
| .900 | .096 | -23550 | -23050 | -23210 | -23290 | -32750 | -32750 | -34120 | -34930 | .24340 | .20760 |
| .899 | .580 | -22860 | -22510 | -23240 | -23560 | -32810 | -32810 | -33710 | -34200 | .22980 | .21900 |
| .900 | 1.102 | -23940 | -23330 | -23590 | -23590 | -32120 | -32120 | -33700 | -33800 | .21940 | .23470 |
| .899 | 2.146 | -24170 | -23950 | -24170 | -24210 | -32250 | -32250 | -32030 | -33140 | .19410 | .25970 |
| .899 | 3.184 | -24450 | -23740 | -24000 | -24100 | -31830 | -31830 | -33360 | -34460 | .16940 | .28880 |
| .899 | 4.225 | -25690 | -24290 | -24810 | -24810 | -32660 | -32660 | -33900 | -33660 | .14900 | .31190 |
| .896 | 6.313 | -26720 | -26740 | -26220 | -27010 | -33620 | -33620 | -35460 | -34790 | .09820 | .36550 |
| | GRADIENT | -00456 | -00404 | -00496 | -00386 | -00120 | -00120 | -00195 | -00032 | -.02434 | .02487 |

RUN NO. 627/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| .951 | -6.176 | -25400 | -25630 | -25160 | -25660 | -32480 | -32480 | -34720 | -34670 | .42450 | .08980 |
| .951 | -2.041 | -24480 | -24460 | -24340 | -24000 | -32280 | -32280 | -32890 | -34010 | .33170 | .18880 |
| .951 | .992 | -24770 | -25000 | -24440 | -24750 | -32890 | -32890 | -34160 | -35210 | .30590 | .21520 |
| .950 | .069 | -25810 | -25810 | -25810 | -25580 | -33720 | -33720 | -35210 | -36140 | .27890 | .24040 |
| .950 | .564 | -25420 | -24890 | -24790 | -25470 | -33420 | -33420 | -35340 | -35640 | .26570 | .25370 |
| .950 | 1.097 | -25330 | -24950 | -25000 | -24930 | -33570 | -33570 | -34710 | -35580 | .25360 | .26640 |
| .950 | 2.146 | -25030 | -25200 | -25460 | -24680 | -33820 | -33820 | -34720 | -35880 | .22670 | .29310 |
| .951 | 3.184 | -25380 | -25410 | -25590 | -25310 | -33820 | -33820 | -35050 | -36300 | .20940 | .32220 |
| .950 | 4.226 | -26990 | -27000 | -26890 | -25590 | -34720 | -34720 | -35960 | -36530 | .18660 | .34600 |
| .947 | 6.315 | -29160 | -28940 | -28600 | -28480 | -37260 | -37260 | -38070 | -38870 | .13210 | .39650 |
| | GRADIENT | -00270 | -00274 | -00335 | -00162 | -00317 | -00317 | -00347 | -00323 | -.02319 | .02526 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA =
AILRON =
SPOBRK =
RN/L =

5.000 ELEVON =
.000 BDFLAP =
.000 RUDDER =
5.000

RUN NO. 621/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| 1.102 | -6.064 | -33630 | -33380 | -33260 | -33590 | -34930 | -34930 | -35780 | -36470 | .53790 | .22270 |
| 1.101 | -1.961 | -31900 | -32150 | -32020 | -31930 | -34680 | -34680 | -35370 | -35950 | .44570 | .30820 |
| 1.101 | -.920 | -31660 | -31750 | -31630 | -31630 | -34470 | -34470 | -35200 | -36010 | .42080 | .33400 |
| 1.100 | .152 | -32170 | -32110 | -31920 | -32110 | -34330 | -34330 | -35390 | -35700 | .39660 | .36040 |
| 1.101 | .649 | -31800 | -32190 | -31800 | -31630 | -33290 | -33290 | -34260 | -35290 | .38760 | .37640 |
| 1.101 | 1.167 | -31740 | -31680 | -31500 | -31600 | -33650 | -33650 | -33730 | -33940 | .37420 | .38320 |
| 1.102 | 2.215 | -31550 | -31520 | -31790 | -31620 | -32560 | -32560 | -33440 | -33960 | .36040 | .41520 |
| 1.100 | 3.260 | -32340 | -32210 | -32490 | -32280 | -33430 | -33430 | -33790 | -34250 | .33200 | .43700 |
| 1.099 | 4.295 | -32940 | -33270 | -33280 | -33070 | -33610 | -33610 | -34590 | -34980 | .31470 | .46360 |
| 1.100 | 6.360 | -33850 | -33820 | -33640 | -34030 | -34590 | -34590 | -35050 | -36000 | .26940 | .51850 |
| | GRADIENT | -00135 | -00124 | -00174 | -00150 | .00232 | .00232 | .00238 | .00282 | -.02077 | .02485 |

RUN NO. 613/ 0 RN/L = 5.06 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| 1.203 | -6.173 | -30900 | -30660 | -30950 | -30680 | -31210 | -31210 | -30970 | -31520 | .55090 | .26500 |
| 1.204 | -2.065 | -29900 | -30060 | -30040 | -29860 | -30520 | -30520 | -30560 | -31250 | .46370 | .31650 |
| 1.200 | -1.017 | -30130 | -30290 | -30390 | -30290 | -31010 | -31010 | -31290 | -32210 | .44030 | .33560 |
| 1.203 | .041 | -29840 | -29940 | -30050 | -30300 | -30830 | -30830 | -30980 | -31970 | .42170 | .36370 |
| 1.202 | .553 | -30020 | -30100 | -29970 | -29940 | -31150 | -31150 | -31460 | -32010 | .41040 | .37420 |
| 1.204 | 1.083 | -30000 | -29870 | -29820 | -29950 | -31000 | -31000 | -31340 | -32130 | .40140 | .38890 |
| 1.202 | 2.123 | -30210 | -30180 | -30080 | -30090 | -31010 | -31010 | -31470 | -31910 | .41430 | .41430 |
| 1.204 | 3.166 | -29930 | -29750 | -29960 | -30200 | -30840 | -30840 | -31210 | -31710 | .36490 | .43970 |
| 1.201 | 4.215 | -30530 | -30630 | -30530 | -30310 | -30720 | -30720 | -31630 | -32500 | .34290 | .46650 |
| 1.200 | 6.312 | -31260 | -30960 | -31050 | -31250 | -31330 | -31330 | -32030 | -32100 | .31040 | .51760 |
| | GRADIENT | -00064 | -00029 | -00024 | -00036 | -.00010 | -.00010 | -.00116 | -.00090 | -.01881 | .02424 |

RUN NO. 604/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| 1.403 | -6.103 | -29010 | -28920 | -28840 | -28840 | -29450 | -29450 | -29590 | -29910 | .58110 | .35690 |
| 1.404 | -1.978 | -29530 | -29480 | -29440 | -29480 | -29870 | -29870 | -30260 | -30450 | .49630 | .42410 |
| 1.403 | -.932 | -29320 | -29350 | -29350 | -29440 | -29640 | -29640 | -30050 | -30360 | .49190 | .43620 |
| 1.405 | .145 | -29190 | -29170 | -29260 | -29260 | -29530 | -29530 | -29820 | -30200 | .48180 | .44780 |
| 1.404 | .638 | -29300 | -29420 | -29300 | -29300 | -29690 | -29690 | -29970 | -30240 | .47060 | .45070 |
| 1.404 | 1.161 | -29300 | -29420 | -29230 | -29300 | -29580 | -29580 | -29950 | -30130 | .47750 | .45390 |
| 1.402 | 2.220 | -29380 | -29360 | -29370 | -29270 | -29720 | -29720 | -29910 | -30410 | .46700 | .46310 |
| 1.404 | 3.275 | -29120 | -29040 | -28990 | -29000 | -29260 | -29260 | -29490 | -29900 | .44870 | .48340 |
| 1.402 | 4.319 | -29000 | -29100 | -28910 | -29170 | -29510 | -29510 | -29780 | -30060 | .41990 | .50210 |
| 1.402 | 6.398 | -28680 | -28690 | -28600 | -28750 | -28700 | -28700 | -29050 | -29360 | .34720 | .54890 |
| 1.400 | GRADIENT | .00051 | .00055 | .00053 | .00061 | .00057 | .00057 | .00083 | .00064 | -.01118 | .01173 |

DATE 10 MAR 80

OAI145 TABULATED FORCE DATA

PAGE 1814

(E2F074) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

ALPHA =
 AILRON =
 SPDBRK =
 RN/L =

10.000 ELEVON = .000
 .000 BDFLAP = .000
 .000 RUDDER = .000
 5.000

PARAMETRIC DATA

RUN NO. 647/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .600 | -6.060 | -21350 | -20730 | -20800 | -21250 | -25810 | -25810 | -28950 | -32130 | 35520 | -.02250 |
| .600 | -1.994 | -19310 | -19660 | -19590 | -19640 | -25960 | -25960 | -28700 | -31330 | 24250 | -.09180 |
| .599 | -.971 | -20370 | -20130 | -19700 | -19330 | -26070 | -26070 | -28560 | -31300 | 21400 | .12200 |
| .600 | .062 | -19880 | -19690 | -19930 | -20000 | -26220 | -26220 | -28330 | -31590 | 18570 | .15050 |
| .600 | .559 | -19750 | -19800 | -19820 | -19440 | -25710 | -25710 | -29080 | -31240 | 17440 | .16760 |
| .600 | 1.061 | -19670 | -19670 | -19760 | -19530 | -25700 | -25700 | -28020 | -31050 | 16340 | .18250 |
| .600 | 2.095 | -20340 | -19680 | -20340 | -19890 | -25770 | -25770 | -28440 | -31230 | 13470 | .21350 |
| .600 | 3.126 | -20520 | -20680 | -19720 | -20710 | -26450 | -26450 | -28850 | -32040 | 10210 | .23950 |
| .599 | 4.167 | -20910 | -21670 | -20770 | -20430 | -26430 | -26430 | -29470 | -31990 | .073 | .26680 |
| .599 | 6.235 | -20990 | -21480 | -21060 | -20890 | -26900 | -26900 | -29270 | -32080 | .00910 | .32440 |
| | GRADIENT | -.00198 | -.00252 | -.00141 | -.00185 | -.00066 | -.00066 | -.00098 | -.00112 | -.02728 | .02864 |

RUN NO. 635/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| .899 | -6.125 | -24530 | -24720 | -24530 | -24130 | -32190 | -32190 | -32670 | -33100 | 44640 | .04590 |
| .900 | -2.024 | -24200 | -24680 | -24030 | -24110 | -33040 | -33040 | -33900 | -34440 | 33310 | .17630 |
| .900 | -.990 | -25090 | -25370 | -25050 | -24570 | -33740 | -33740 | -35200 | -34720 | 30540 | .20580 |
| .898 | .055 | -25070 | -25340 | -25500 | -24650 | -33770 | -33770 | -34710 | -35660 | 27840 | .23550 |
| .900 | .558 | -24540 | -24400 | -24990 | -25210 | -34200 | -34200 | -34580 | -34920 | 26540 | .24970 |
| .899 | 1.067 | -25310 | -24970 | -25470 | -24760 | -33550 | -33550 | -34830 | -34670 | 25600 | .26760 |
| .899 | 2.119 | -25030 | -25210 | -25430 | -25550 | -34370 | -34370 | -35180 | -36400 | 22570 | .29560 |
| .899 | 3.162 | -25790 | -25720 | -25310 | -25340 | -36050 | -36050 | -36010 | -36650 | 19340 | .32100 |
| .898 | 4.220 | -26100 | -26030 | -25820 | -26450 | -35740 | -35740 | -36170 | -36940 | 16760 | .35240 |
| .898 | 6.306 | -26510 | -26640 | -26410 | -26220 | -35710 | -35710 | -37670 | -38170 | 11190 | .41520 |
| | GRADIENT | -.00251 | -.00172 | -.00202 | -.00321 | -.00456 | -.00456 | -.00312 | -.00424 | -.02657 | .02814 |

RUN NO. 628/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| .951 | -6.159 | -25490 | -25880 | -25640 | -25220 | -34310 | -34310 | -35120 | -35020 | 48050 | .07920 |
| .951 | -2.045 | -25760 | -25510 | -25300 | -24820 | -34860 | -34860 | -35770 | -36670 | 36700 | .20680 |
| .949 | -1.005 | -26340 | -26160 | -25790 | -25960 | -36570 | -36570 | -36830 | -37520 | 33660 | .23220 |
| .950 | .046 | -25860 | -25910 | -25270 | -26030 | -36350 | -36350 | -36890 | -37720 | 31180 | .26550 |
| .950 | .553 | -26150 | -26500 | -26620 | -26620 | -36640 | -36640 | -37200 | -37690 | 29750 | .27870 |
| .951 | 1.066 | -25350 | -25730 | -26040 | -25880 | -36320 | -36320 | -36250 | -37240 | 28570 | .29540 |
| .949 | 2.120 | -26200 | -26560 | -26580 | -26740 | -35810 | -35810 | -36600 | -37110 | 25830 | .32670 |
| .950 | 3.169 | -25510 | -25740 | -25530 | -25530 | -35850 | -35850 | -37200 | -37730 | 22960 | .35490 |
| .950 | 4.229 | -26870 | -25790 | -26300 | -26920 | -36030 | -36030 | -37920 | -38720 | 20420 | .38460 |
| .947 | 6.318 | -27280 | -27080 | -26910 | -26300 | -36520 | -36520 | -38450 | -39270 | 14530 | .44130 |
| | GRADIENT | -.00066 | -.00013 | -.00104 | -.00199 | -.00042 | -.00042 | -.00228 | -.00200 | -.02583 | .02874 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1815

AMES 118-1-11 OAI45A 01

(E2F074) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

ALPHA =
 AILRON =
 SPOBRK =
 RN/L =

PARAMETRIC DATA

10.000 ELEVON = .000
 .000 BDFLAP = .000
 .000 RUDDER = .000
 5.000

RUN NO. 615/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.201 | -6.128 | -31350 | -31280 | -31230 | -31340 | -32470 | -32470 | -32580 | -33080 | -59100 | -26180 |
| 1.206 | -2.044 | -29730 | -30230 | -29950 | -29820 | -30480 | -30480 | -31070 | -31250 | -48970 | -31950 |
| 1.202 | -1.005 | -30090 | -30160 | -30180 | -30180 | -30850 | -30850 | -31360 | -31610 | -46390 | -34310 |
| 1.202 | .046 | -30240 | -30250 | -30170 | -30280 | -31020 | -31020 | -31690 | -32280 | -43980 | -37280 |
| 1.201 | .545 | -30100 | -29890 | -29920 | -30440 | -31230 | -31230 | -31690 | -32110 | -42700 | -38480 |
| 1.201 | 1.069 | -30370 | -30430 | -30370 | -30570 | -30830 | -30830 | -31610 | -32120 | -41570 | -40230 |
| 1.202 | 2.127 | -30670 | -30980 | -30690 | -31010 | -31510 | -31510 | -32510 | -32880 | -39000 | -43070 |
| 1.199 | 3.177 | -31220 | -31340 | -31150 | -31340 | -32120 | -32120 | -32560 | -33140 | -36790 | -45750 |
| 1.200 | 4.242 | -31260 | -31110 | -30780 | -31330 | -31840 | -31840 | -32180 | -32730 | -35020 | -48870 |
| 1.201 | 6.326 | -31930 | -31390 | -31580 | -31480 | -31870 | -31870 | -32440 | -33260 | -31950 | -54560 |
| 1.200 | GRADIENT | -00253 | -00205 | -00176 | -00260 | -00241 | -00241 | -00224 | -00277 | -02250 | -02715 |

RUN NO. 605/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.397 | -6.178 | -30400 | -30570 | -30470 | -30670 | -30220 | -30220 | -30510 | -30480 | -61950 | -35490 |
| 1.406 | -2.051 | -30710 | -30670 | -30750 | -30760 | -30620 | -30620 | -30830 | -31100 | -52950 | -43360 |
| 1.405 | -1.009 | -30630 | -30710 | -30790 | -30790 | -30770 | -30770 | -30900 | -31220 | -50870 | -44600 |
| 1.405 | .047 | -31000 | -30820 | -30920 | -30950 | -30790 | -30790 | -31140 | -31480 | -49620 | -45980 |
| 1.405 | .557 | -30820 | -30840 | -30840 | -30900 | -30970 | -30970 | -31100 | -31340 | -49220 | -46330 |
| 1.403 | 1.074 | -31070 | -31140 | -31060 | -30980 | -30950 | -30950 | -31150 | -31720 | -48600 | -46660 |
| 1.402 | 2.139 | -30680 | -30750 | -30550 | -30800 | -30890 | -30890 | -31330 | -31620 | -46490 | -47560 |
| 1.402 | 3.195 | -30670 | -30590 | -30710 | -30690 | -30850 | -30850 | -30950 | -31460 | -45510 | -48880 |
| 1.401 | 4.261 | -30370 | -30220 | -30300 | -30370 | -30500 | -30500 | -30750 | -31230 | -43490 | -50970 |
| 1.401 | 6.361 | -30430 | -30450 | -30280 | -30310 | -30060 | -30060 | -30280 | -30710 | -38500 | -56180 |
| 1.401 | GRADIENT | -00044 | -00059 | -00065 | -00054 | -00007 | -00007 | -00000 | -00035 | -01438 | -01119 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1816

AMES 118-1-11 OAI45A 01

(E2F075) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDRBK = .000
 RN/L = 5.000

RUN NO. 648/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .600 | -14.960 | -21010 | -20680 | -20940 | -21080 | -21510 | -21510 | -21400 | -22100 | .08150 | .05590 |
| .600 | -10.718 | -20410 | -20510 | -20180 | -20200 | -20860 | -20860 | -21350 | -21630 | .08160 | .06720 |
| .600 | -4.969 | -18980 | -19360 | -19690 | -19380 | -20160 | -20160 | -20490 | -20610 | .08660 | .06900 |
| .600 | -2.426 | -19080 | -19530 | -19570 | -19290 | -20090 | -20090 | -20350 | -21170 | .08640 | .07000 |
| .600 | -.089 | -19420 | -19630 | -19610 | -19700 | -20330 | -20330 | -21080 | -21130 | .08190 | .06780 |
| .600 | 2.505 | -20060 | -19730 | -19990 | -19710 | -20530 | -20530 | -20840 | -21240 | .08060 | .06450 |
| .600 | 5.014 | -19640 | -19610 | -19900 | -19710 | -20530 | -20530 | -20390 | -20650 | .08550 | .06670 |
| .600 | 10.019 | -19990 | -20250 | -20300 | -20160 | -20590 | -20590 | -21060 | -21040 | .08540 | .06780 |
| .600 | 14.996 | -20490 | -21030 | -21000 | -20860 | -21000 | -21000 | -21050 | -21300 | .08540 | .06810 |
| .600 | 18.125 | -21070 | -21260 | -21260 | -21030 | -21470 | -21470 | -21400 | -21910 | .08650 | .06660 |
| .600 | 22.799 | -21810 | -21970 | -22040 | -21740 | -21640 | -21640 | -22200 | -22270 | .08610 | .06910 |
| .600 | GRADIENT | -.00145 | -.00049 | -.00038 | -.00058 | -.00090 | -.00050 | -.00070 | -.00075 | -.00090 | -.00063 |

RUN NO. 636/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|--------|--------|--------|--------|---------|--------|--------|---------|
| .901 | -14.993 | -25290 | -24700 | -24700 | -25180 | -29320 | -29320 | -29370 | -30200 | .18280 | .15950 |
| .902 | -10.762 | -24360 | -23900 | -23690 | -23840 | -28860 | -28860 | -29460 | -30260 | .18260 | .16000 |
| .900 | -4.939 | -23190 | -23900 | -23930 | -24470 | -28580 | -28580 | -29400 | -29710 | .18100 | .15810 |
| .899 | -2.442 | -24280 | -23690 | -23320 | -23560 | -29000 | -29000 | -29390 | -30810 | .17850 | .15590 |
| .900 | -.089 | -23890 | -23840 | -23780 | -23780 | -28730 | -28730 | -29460 | -29150 | .18210 | .15710 |
| .900 | 2.522 | -23950 | -23910 | -23720 | -23840 | -28640 | -28640 | -29430 | -30140 | .18190 | .15710 |
| .900 | 5.024 | -24170 | -24190 | -23340 | -23860 | -28560 | -28560 | -29340 | -30110 | .17930 | .15690 |
| .901 | 10.011 | -23970 | -24470 | -24160 | -24420 | -28300 | -28300 | -29710 | -29980 | .18100 | .15890 |
| .899 | 14.996 | -25140 | -24860 | -24860 | -24800 | -29350 | -29350 | -29440 | -30880 | .17730 | .15490 |
| .900 | 18.116 | -25410 | -25450 | -23820 | -24720 | -29030 | -29030 | -29800 | -30420 | .17970 | .15660 |
| .900 | 22.818 | -25020 | -25160 | -25470 | -25680 | -28140 | -28140 | -29590 | -30710 | .18370 | .15940 |
| .900 | GRADIENT | -.00077 | -.00007 | .00007 | .00067 | .00004 | .00004 | -.00006 | .00012 | .00025 | -.00007 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(E2F075) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 BETA = .000
 ELEVON = .000 AILRON = .000
 BOFLAP = .000 SPDRK = .000
 RN/L = 5.000

RUN NO. 629/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|
| .952 | -14.993 | -28330 | -28460 | -28310 | -28590 | -36380 | -36380 | -36660 | -38190 | .22230 | .19830 |
| .951 | -10.745 | -27200 | -27550 | -28020 | -27650 | -35550 | -35550 | -36880 | -37990 | .22460 | .19940 |
| .953 | -4.954 | -26960 | -27060 | -26910 | -27670 | -35240 | -35240 | -36320 | -37490 | .22320 | .19970 |
| .953 | -2.434 | -26940 | -26680 | -26870 | -27040 | -35420 | -35420 | -36250 | -37250 | .22360 | .19930 |
| .951 | -1.116 | -27500 | -27430 | -27200 | -27250 | -35690 | -35690 | -36750 | -37640 | .22090 | .19700 |
| .952 | 2.505 | -27370 | -27180 | -27250 | -26870 | -35760 | -35760 | -36560 | -37450 | .22230 | .19740 |
| .952 | 5.024 | -27230 | -26730 | -27060 | -26930 | -35730 | -35730 | -36610 | -37580 | .22250 | .19690 |
| .951 | 10.011 | -27890 | -27860 | -27770 | -27840 | -36200 | -36200 | -37230 | -37970 | .22070 | .19530 |
| .951 | 15.022 | -28710 | -28580 | -28640 | -28810 | -36410 | -36410 | -37410 | -38590 | .22020 | .19610 |
| .950 | 18.107 | -28880 | -28750 | -28610 | -29060 | -36570 | -36570 | -37590 | -38730 | .22160 | .19700 |
| .951 | 22.827 | -29120 | -28970 | -29400 | -29910 | -36800 | -36800 | -37440 | -38460 | .22080 | .19590 |
| | GRADIENT | -0.0071 | -0.0043 | -0.0054 | 0.0090 | -0.0074 | -0.0074 | -0.0048 | -0.0010 | -0.0021 | -0.0037 |

RUN NO. 616/ 0 RN/L = 5.07 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|
| 1.202 | -14.970 | -29880 | -30030 | -30190 | -30030 | -29830 | -29830 | -30300 | -30600 | .38620 | .35390 |
| 1.204 | -10.718 | -29290 | -29310 | -29250 | -29260 | -29280 | -29280 | -29600 | -30010 | .38810 | .35450 |
| 1.203 | -4.924 | -28870 | -28970 | -29100 | -29110 | -28910 | -28910 | -29580 | -29930 | .38850 | .35540 |
| 1.204 | -2.451 | -28510 | -28620 | -28590 | -28580 | -28580 | -28580 | -29010 | -29570 | .38920 | .35660 |
| 1.204 | -1.103 | -28630 | -28700 | -28500 | -28650 | -28600 | -28600 | -29110 | -29780 | .38830 | .35550 |
| 1.203 | 2.531 | -28830 | -28830 | -28770 | -28840 | -28790 | -28790 | -29380 | -30000 | .38740 | .35440 |
| 1.203 | 5.014 | -28890 | -28850 | -28890 | -28880 | -28970 | -28970 | -29230 | -29840 | .38620 | .35410 |
| 1.204 | 10.019 | -29480 | -29490 | -29280 | -29460 | -29290 | -29290 | -29660 | -30230 | .38850 | .35600 |
| 1.203 | 15.005 | -30030 | -30140 | -30120 | -30070 | -29700 | -29700 | -30340 | -30790 | .38650 | .35450 |
| 1.203 | 18.098 | -30300 | -30330 | -30380 | -30440 | -30070 | -30070 | -30530 | -30910 | .38690 | .35390 |
| 1.202 | 22.827 | -30640 | -30720 | -30850 | -30890 | -30210 | -30210 | -30490 | -30980 | .38660 | .35360 |
| | GRADIENT | -0.0000 | -0.0013 | -0.0047 | 0.0029 | -0.0013 | -0.0013 | -0.0019 | -0.0017 | -0.0017 | -0.0017 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1818

AMES 118-1-11 OAI45A 01

(E2F076) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 ATILRON = .000
 BOFLAP = .000 SPOBRK = .000
 RN/L = 5.000

RUN NO. 649/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| .600 | -15.010 | -20940 | -20540 | -20680 | -20370 | -23300 | -23300 | -24350 | -25990 | 15440 | 13300 |
| .600 | -10.754 | -20290 | -19990 | -19840 | -19890 | -23160 | -23160 | -23890 | -25870 | 15550 | 13210 |
| .600 | -4.932 | -19380 | -19610 | -19310 | -19400 | -22960 | -22960 | -24010 | -25510 | 15340 | 13000 |
| .600 | -2.434 | -19850 | -19440 | -19520 | -19680 | -22670 | -22670 | -24060 | -25600 | 15570 | 13160 |
| .600 | -1.103 | -19860 | -19130 | -19770 | -19880 | -23050 | -23050 | -23990 | -25320 | 15410 | 12890 |
| .600 | 2.513 | -19450 | -19780 | -19870 | -19520 | -22640 | -22640 | -23690 | -25490 | 15540 | 13190 |
| .600 | 4.996 | -20040 | -19870 | -19710 | -19820 | -22560 | -22560 | -23960 | -25430 | 15490 | 13240 |
| .600 | 10.003 | -19960 | -19940 | -19780 | -20040 | -22960 | -22960 | -24150 | -25500 | 15460 | 13090 |
| .600 | 15.014 | -20790 | -20510 | -20940 | -20910 | -22750 | -22750 | -24510 | -25540 | 15450 | 13420 |
| .600 | 18.125 | -20980 | -21150 | -20960 | -20740 | -23270 | -23270 | -24270 | -25800 | 15560 | 13270 |
| .600 | 22.827 | -21720 | -21670 | -21620 | -21430 | -23790 | -23790 | -25000 | -26130 | 15550 | 13090 |
| | GRADIENT | -2.0037 | -2.0036 | -2.0046 | -2.0027 | -2.0034 | -2.0034 | -2.0019 | -2.0011 | .00011 | .00021 |

RUN NO. 661/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .800 | -14.965 | -21830 | -21380 | -21510 | -21810 | -25610 | -25610 | -26200 | -28190 | 19830 | 16550 |
| .800 | -10.736 | -20930 | -21060 | -21250 | -21150 | -24940 | -24940 | -26320 | -27910 | 19680 | 16760 |
| .800 | -4.902 | -20540 | -20450 | -20350 | -21050 | -24800 | -24800 | -26150 | -27630 | 19830 | 16670 |
| .800 | -2.451 | -20430 | -20580 | -20940 | -20340 | -24460 | -24460 | -26290 | -27080 | 19770 | 16800 |
| .800 | -1.123 | -20630 | -20070 | -20010 | -20670 | -24700 | -24700 | -26010 | -27510 | 19670 | 16650 |
| .800 | 2.488 | -20620 | -20470 | -20470 | -20710 | -24860 | -24860 | -25460 | -27500 | 19510 | 16530 |
| .800 | 5.014 | -20550 | -20700 | -20750 | -20510 | -24500 | -24500 | -26310 | -27660 | 19720 | 16820 |
| .800 | 10.003 | -21520 | -20780 | -21180 | -21180 | -25180 | -25180 | -25890 | -27350 | 19510 | 16510 |
| .800 | 15.014 | -21520 | -21990 | -21520 | -21250 | -25510 | -25510 | -26300 | -27570 | 19580 | 16460 |
| .800 | 18.107 | -22060 | -21570 | -21440 | -21120 | -25080 | -25080 | -26090 | -27670 | 19900 | 16770 |
| .800 | 22.827 | -22110 | -22220 | -22040 | -22260 | -25600 | -25600 | -26530 | -27710 | 19860 | 16630 |
| | GRADIENT | -2.0018 | -2.0017 | -2.0021 | -2.0028 | -2.0017 | -2.0017 | -2.0097 | -2.0001 | -.00043 | -.00023 |

DATE 10 MAR 80

OA145 TABULATED FORCE DATA

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AMES 118-1-11 0A145A 01

(E2F076) (08 JUL 77)

REFERENCE DATA

| | | | | | | | | | |
|---|-------|---|-----------|--------|------|---|-----------|-----|----|
| = | SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1076.6800 | IN. | XO |
| = | DLRF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. | YO |
| = | BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. | ZO |
| = | SCALE | = | .0500 | | | | | | |

PARAMETRIC DATA

| | | | | | |
|--------|---|-------|--------|---|------|
| ALPHA | = | 5.000 | BETA | = | .000 |
| ELEVON | = | .000 | AILRON | = | .000 |
| BOFLAP | = | .000 | SPDRK | = | .000 |
| RN/L | = | 5.000 | | | |

RUN NO. 637/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|---------|--------|--------|--------|---------|--------|--------|--------|---------|---------|---------|
| .900 | -14.976 | -24800 | -24580 | -24470 | -24560 | -33910 | -33910 | -34490 | -35370 | .24240 | .20640 |
| .900 | -10.736 | -23230 | -23310 | -23370 | -23250 | -31780 | -31780 | -34340 | -34360 | .24710 | .21260 |
| .902 | -4.954 | -23230 | -23260 | -23330 | -22750 | -32390 | -32390 | -33800 | -34340 | .24680 | .21130 |
| .900 | -2.426 | -23380 | -22640 | -22360 | -22920 | -32640 | -32640 | -33620 | -34590 | .24460 | .20950 |
| .900 | -1.103 | -23280 | -23570 | -22600 | -22770 | -31940 | -31940 | -34040 | -34440 | .24520 | .21110 |
| .900 | 3.513 | -22940 | -22730 | -22600 | -23180 | -32540 | -32540 | -33100 | -34910 | .24410 | .21060 |
| .900 | 5.005 | -23310 | -23290 | -23570 | -23290 | -32480 | -32480 | -34560 | -34650 | .24310 | .20930 |
| .900 | 10.019 | -23850 | -23860 | -24000 | -23920 | -32810 | -32810 | -34380 | -35300 | .24340 | .20840 |
| .900 | 15.022 | -24510 | -24190 | -24320 | -23960 | -32840 | -32840 | -34270 | -35320 | .24250 | .20850 |
| .900 | 18.107 | -24740 | -24550 | -24160 | -24340 | -32810 | -32810 | -34030 | -35520 | .24280 | .20870 |
| .900 | 22.808 | -25340 | -25160 | -25610 | -25400 | -33060 | -33060 | -34240 | -35440 | .24340 | .20930 |
| GRADIENT | | .00040 | .00030 | .00079 | -.00047 | .00008 | .00008 | .00070 | -.00064 | -.00031 | -.00002 |

| | | | | | |
|---------|--------|--------|------|---------------------|-------------|
| RUN NO. | 630/ 0 | RN/L = | 5.03 | GRADIENT INTERVAL = | -5.00/ 5.00 |
|---------|--------|--------|------|---------------------|-------------|

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|---------|---------|---------|---------|---------|--------|--------|---------|---------|---------|---------|
| .951 | -14.965 | -26370 | -25720 | -25870 | -25770 | -34690 | -34690 | -35720 | -36110 | .27980 | .24210 |
| .951 | -10.736 | -25620 | -25440 | -25510 | -25270 | -34050 | -34050 | -35730 | -35830 | .28030 | .24300 |
| .952 | -4.961 | -25170 | -25320 | -24630 | -24970 | -33620 | -33620 | -33930 | -35020 | .28210 | .24420 |
| .952 | -2.442 | -25560 | -25240 | -25270 | -24880 | -33470 | -33470 | -34550 | -35450 | .28020 | .24270 |
| .949 | -1.110 | -25550 | -26230 | -25480 | -25610 | -33630 | -33630 | -35230 | -36360 | .27640 | .24080 |
| .950 | 2.488 | -25200 | -25660 | -25160 | -25160 | -33380 | -33380 | -35340 | -35940 | .27890 | .24230 |
| .951 | 5.014 | -25240 | -25400 | -25720 | -25700 | -33270 | -33270 | -35220 | -35450 | .28130 | .24430 |
| .951 | 10.011 | -25370 | -25010 | -25370 | -25140 | -33970 | -33970 | -35180 | -35480 | .27900 | .24200 |
| .951 | 15.005 | -26000 | -26200 | -26490 | -26340 | -34400 | -34400 | -35050 | -35890 | .27970 | .24200 |
| .950 | 18.107 | -26330 | -26910 | -26480 | -26350 | -33950 | -33950 | -35760 | -36140 | .28080 | .24380 |
| .951 | 22.827 | -27060 | -27370 | -27170 | -27550 | -34620 | -34620 | -36010 | -36550 | .27920 | .24170 |
| GRADIENT | | -0.0003 | -0.0079 | -0.0072 | -0.0051 | .00023 | .00023 | -.00198 | -.00147 | -.00053 | -.00030 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1820

AMES 118-1-11 0A145A 01

(E2F076) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = .000
 RN/L = 5.000

| RUN NO. 620/ 0 | | RN/L = 5.00 | | GRADIENT INTERVAL = -5.00/ 5.00 | | CP240 | | CP243 | | CP12 | | CP13 | |
|----------------|--------|-------------|--------|---------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP249 | CP252 | CP255 | CP258 | CP261 |
| -14.993 | -33310 | -33530 | -33870 | -33590 | -35460 | -35460 | -36010 | -36520 | -36520 | -36520 | -36520 | -36520 | -36520 |
| -10.771 | -32460 | -32700 | -32190 | -32430 | -34760 | -34760 | -35210 | -35640 | -35640 | -35640 | -35640 | -35640 | -35640 |
| -4.947 | -32210 | -32130 | -32340 | -32220 | -34410 | -34410 | -35090 | -35850 | -35850 | -35850 | -35850 | -35850 | -35850 |
| -2.434 | -31620 | -31620 | -31560 | -31650 | -33610 | -33610 | -34650 | -35260 | -35260 | -35260 | -35260 | -35260 | -35260 |
| -1.03 | -31580 | -31510 | -31550 | -31750 | -33640 | -33640 | -34410 | -35030 | -35030 | -35030 | -35030 | -35030 | -35030 |
| 2.513 | -31840 | -31810 | -31720 | -31540 | -33930 | -33930 | -34870 | -35500 | -35500 | -35500 | -35500 | -35500 | -35500 |
| 5.014 | -31580 | -31740 | -31800 | -31880 | -33680 | -33680 | -34690 | -34880 | -34880 | -34880 | -34880 | -34880 | -34880 |
| 10.019 | -33040 | -32890 | -32740 | -32530 | -34740 | -34740 | -35470 | -36070 | -36070 | -36070 | -36070 | -36070 | -36070 |
| 15.014 | -33040 | -33170 | -33170 | -33230 | -34920 | -34920 | -35560 | -35970 | -35970 | -35970 | -35970 | -35970 | -35970 |
| 18.116 | -33840 | -33690 | -33890 | -33870 | -35160 | -35160 | -35840 | -36360 | -36360 | -36360 | -36360 | -36360 | -36360 |
| 22.836 | -33970 | -34310 | -34300 | -34240 | -35240 | -35240 | -36000 | -36310 | -36310 | -36310 | -36310 | -36310 | -36310 |
| GRADIENT | .00032 | .00043 | .00075 | .00079 | .00057 | .00057 | .00035 | .00051 | .00051 | .00051 | .00051 | .00051 | .00051 |

| RUN NO. 617/ 0 | | RN/L = 5.05 | | GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | |
|----------------|--------|-------------|--------|---------------------------------|--------|--------|--------|--------|---------|---------|--|
| RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 | |
| -14.976 | -30960 | -31050 | -31350 | -31280 | -31960 | -31960 | -32490 | -32820 | 41900 | 36310 | |
| -10.762 | -30410 | -30770 | -30770 | -30500 | -31720 | -31720 | -32180 | -32750 | 41940 | 36290 | |
| -4.932 | -29910 | -29910 | -30120 | -29810 | -31320 | -31320 | -31560 | -32010 | 41980 | 36390 | |
| -2.426 | -29710 | -29770 | -29860 | -30020 | -30940 | -30940 | -31300 | -31570 | 41950 | 36420 | |
| -1.110 | -30020 | -30200 | -30000 | -29930 | -30750 | -30750 | -31320 | -32050 | 42010 | 36380 | |
| 2.522 | -29790 | -30060 | -30090 | -30030 | -30870 | -30870 | -31470 | -31860 | 41950 | 36400 | |
| 5.005 | -30130 | -30370 | -30160 | -29920 | -31370 | -31370 | -31750 | -32250 | 41840 | 36160 | |
| 10.043 | -30710 | -30930 | -30770 | -30740 | -31700 | -31700 | -32150 | -33030 | 41970 | 36370 | |
| 15.014 | -31540 | -31450 | -31650 | -31620 | -31970 | -31970 | -32090 | -33090 | 41890 | 36360 | |
| 18.107 | -31450 | -31200 | -31540 | -31660 | -32400 | -32400 | -32680 | -33350 | 41980 | 36450 | |
| 22.827 | -31800 | -31890 | -31960 | -32050 | -32530 | -32530 | -32910 | -33290 | 42090 | 36540 | |
| GRADIENT | .00003 | .00035 | .00002 | .00023 | .00062 | .00062 | .00010 | .00000 | -.00001 | -.00000 | |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

(E2F076) (08 JUL 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELEVON = .000 AILRON = .000
BOFLAP = .000 SPDGRK = .000
RN/L = 5.000

RUN NO. 606/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 1.407 | -14.970 | -30650 | -30640 | -30720 | -30740 | -30860 | -30860 | -31080 | -31350 | 48180 | 44830 |
| 1.407 | -10.745 | -30040 | -30040 | -30110 | -30100 | -30440 | -30440 | -30460 | -30810 | 48000 | 44680 |
| 1.403 | -4.932 | -29740 | -29620 | -29580 | -29540 | -29940 | -29940 | -30220 | -30620 | 48150 | 44610 |
| 1.404 | -2.426 | -29350 | -29520 | -29470 | -29400 | -29830 | -29830 | -30120 | -30310 | 48110 | 44610 |
| 1.403 | -1.110 | -29280 | -29370 | -29380 | -29240 | -29620 | -29620 | -29860 | -30250 | 48320 | 44720 |
| 1.403 | 2.505 | -29350 | -29410 | -29250 | -29360 | -29840 | -29840 | -30050 | -30480 | 48080 | 44510 |
| 1.403 | 5.014 | -29380 | -29500 | -29530 | -29660 | -29820 | -29820 | -30190 | -30480 | 48020 | 44700 |
| 1.402 | 10.027 | -30140 | -30100 | -30150 | -30150 | -30240 | -30240 | -30440 | -30840 | 48170 | 44560 |
| 1.403 | 15.022 | -30660 | -30690 | -30530 | -30520 | -30750 | -30750 | -30970 | -31360 | 48090 | 44560 |
| 1.403 | 18.116 | -30960 | -30770 | -30950 | -30980 | -31150 | -31150 | -31380 | -31540 | 48230 | 44650 |
| 1.403 | 22.818 | -31260 | -31290 | -31150 | -31370 | -31510 | -31510 | -31760 | -31880 | 48170 | 44590 |
| | GRADIENT | .00050 | .00031 | .00044 | .00028 | .00020 | .00020 | .00031 | .00019 | -0.0001 | -0.0008 |

AMES 118-1-11 0A145A 01

(E2F077) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000 BETA = .000
ELEVON = .000 AILRON = .000
BOFLAP = .000 SPDGRK = .000
RN/L = 5.000

RUN NO. 650/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| .600 | -14.965 | -20900 | -20640 | -20930 | -20480 | -25890 | -25890 | -28990 | -32060 | 18790 | 15480 |
| .600 | -10.754 | -20120 | -19930 | -19670 | -19890 | -25960 | -25960 | -28980 | -31180 | 18930 | 15350 |
| .598 | -4.924 | -20120 | -19930 | -19290 | -19360 | -25360 | -25360 | -28350 | -31150 | 18730 | 15570 |
| .598 | -2.434 | -19400 | -19760 | -19830 | -19900 | -25700 | -25700 | -28220 | -31120 | 18810 | 15360 |
| .598 | -1.103 | -19780 | -19610 | -19610 | -19710 | -25770 | -25770 | -28500 | -31070 | 18770 | 15230 |
| .598 | 2.522 | -18910 | -19290 | -19790 | -19980 | -25670 | -25670 | -28240 | -31070 | 18640 | 15180 |
| .598 | 4.996 | -20230 | -19540 | -19140 | -20130 | -25360 | -25360 | -28350 | -31820 | 18950 | 15500 |
| .597 | 10.027 | -20120 | -20000 | -20290 | -19640 | -26040 | -26040 | -28260 | -31400 | 18360 | 15200 |
| .597 | 14.996 | -21000 | -20720 | -20980 | -20980 | -26190 | -26190 | -29020 | -31470 | 18850 | 15160 |
| .597 | 17.170 | -20740 | -20310 | -20630 | -20930 | -26070 | -26070 | -29190 | -31460 | 18710 | 14870 |
| .598 | 22.818 | -22000 | -20360 | -21450 | -20150 | -25690 | -25690 | -29060 | -31840 | 18550 | 15800 |
| | GRADIENT | .00011 | .00050 | .00014 | .00066 | .00002 | .00002 | .00000 | .00052 | .00011 | -0.00013 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1822

AMES 118-1-11 0A145A 01

(E2F077) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA =
ELEVON =
BDFLAP =
RN/L =
10.000 BETA =
.000 AILRON =
.000 SPOBRK =
5.000

RUN NO. 638/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .900 | -14.960 | .26370 | .26110 | .24990 | .26080 | .34690 | .34690 | .35570 | .35770 | .28030 | .23520 |
| .900 | -10.736 | .25640 | .25190 | .25450 | .25110 | .34330 | .34330 | .34880 | .35310 | .28050 | .23490 |
| .900 | -4.947 | .25180 | .25270 | .25160 | .25130 | .33970 | .33970 | .35330 | .35280 | .27980 | .23540 |
| .898 | -2.434 | .25600 | .25710 | .25410 | .25810 | .34360 | .34360 | .35260 | .35420 | .27760 | .23280 |
| .900 | -1.103 | .24630 | .25170 | .25270 | .24680 | .34460 | .34460 | .35290 | .34790 | .27910 | .23390 |
| .900 | 2.522 | .24680 | .24770 | .25030 | .25100 | .33400 | .33400 | .35240 | .35260 | .28200 | .23780 |
| .900 | 4.996 | .24910 | .25100 | .24210 | .24780 | .33790 | .33790 | .34290 | .35290 | .28050 | .23630 |
| .900 | 10.003 | .25110 | .25330 | .25490 | .25520 | .34490 | .34490 | .34710 | .35450 | .27960 | .23450 |
| .901 | 15.014 | .26220 | .25680 | .25850 | .25990 | .34400 | .34400 | .35120 | .35310 | .27940 | .23670 |
| .898 | 18.125 | .26800 | .26640 | .26920 | .27510 | .34940 | .34940 | .36020 | .36460 | .27770 | .23230 |
| .901 | 22.808 | .27160 | .26520 | .26880 | .25880 | .34330 | .34330 | .35880 | .35260 | .28170 | .23750 |
| GRADIENT | | .00058 | .00051 | .00036 | .00056 | .00054 | .00054 | .00085 | .00005 | .00023 | .00028 |

RUN NO. 631/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .951 | -14.965 | .26500 | .26840 | .26540 | .27030 | .35560 | .35560 | .37150 | .36630 | .31550 | .27170 |
| .952 | -10.736 | .26230 | .25850 | .25780 | .26020 | .36340 | .36340 | .36900 | .37530 | .31440 | .26920 |
| .952 | -4.961 | .26030 | .25950 | .26000 | .26330 | .36080 | .36080 | .37280 | .37360 | .31350 | .26850 |
| .951 | -2.434 | .26170 | .25390 | .26040 | .25940 | .35680 | .35680 | .37110 | .36830 | .31310 | .26790 |
| .950 | -1.110 | .26080 | .25820 | .26350 | .25870 | .35730 | .35730 | .36900 | .37240 | .31240 | .26740 |
| .952 | 2.522 | .25470 | .25530 | .24850 | .25270 | .35240 | .35240 | .35460 | .37180 | .31330 | .27000 |
| .950 | 4.996 | .26200 | .26270 | .26170 | .25840 | .36070 | .36070 | .36660 | .37950 | .31060 | .26570 |
| .950 | 10.019 | .28580 | .19340 | .23930 | .22060 | .36470 | .36470 | .37440 | .38070 | .31370 | .26850 |
| .952 | 15.014 | .26830 | .26330 | .26680 | .26720 | .36180 | .36180 | .37540 | .38070 | .31420 | .26930 |
| .951 | 18.098 | .27500 | .26920 | .27430 | .26670 | .36450 | .36450 | .37710 | .37610 | .31340 | .26770 |
| .951 | 22.818 | .27720 | .27440 | .27490 | .27340 | .36430 | .36430 | .37250 | .38250 | .31050 | .26740 |
| .950 | GRADIENT | .00015 | .00031 | .00035 | .00067 | .00014 | .00014 | .00054 | .00061 | .00022 | .00014 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1823

AMES 118-1-11 OAI45A 01

(EZF077) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .0000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPOBRK = .000
 RN/L = 5.000

RUN NO. 618/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.202 | -14.965 | -31420 | -31720 | -31420 | -31570 | -32520 | -32520 | -32610 | -33060 | .43990 | .37050 |
| 1.203 | -10.736 | -30520 | -30910 | -30860 | -31180 | -31630 | -31630 | -32200 | -32540 | .44160 | .37330 |
| 1.201 | -4.947 | -29900 | -30630 | -30820 | -30770 | -31780 | -31780 | -32160 | -32470 | .43860 | .36960 |
| 1.204 | -2.426 | -29910 | -30080 | -30180 | -30120 | -31320 | -31320 | -31520 | -31830 | .44120 | .37150 |
| 1.204 | -1.110 | -30080 | -29790 | -30050 | -29850 | -30860 | -30860 | -31230 | -31780 | .44220 | .37530 |
| 1.203 | 2.531 | -30440 | -30340 | -30550 | -30370 | -31490 | -31490 | -31850 | -32370 | .44120 | .37280 |
| 1.202 | 5.014 | -30490 | -30620 | -30780 | -30870 | -31580 | -31580 | -32060 | -32300 | .44100 | .37240 |
| 1.203 | 10.043 | -31290 | -30960 | -31090 | -30860 | -32150 | -32150 | -32430 | -32880 | .44060 | .37260 |
| 1.203 | 15.014 | -31350 | -32190 | -31790 | -31470 | -32390 | -32390 | -33060 | -33040 | .44020 | .37290 |
| 1.202 | 18.107 | -32010 | -31970 | -32210 | -32450 | -33000 | -33000 | -33420 | -33500 | .43940 | .37250 |
| 1.203 | 22.827 | -32720 | -32760 | -32580 | -32510 | -32990 | -32990 | -33570 | -33820 | .44150 | .37420 |
| | GRADIENT | .00073 | .00045 | .00037 | .00058 | .00052 | .00052 | .00048 | .00013 | .00035 | .00051 |

RUN NO. 607/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.402 | -14.970 | -31960 | -31950 | -31980 | -31920 | -31800 | -31800 | -31990 | -32310 | .49670 | .45800 |
| 1.401 | -10.745 | -31660 | -31870 | -31750 | -31900 | -31510 | -31510 | -31720 | -32080 | .49440 | .45750 |
| 1.402 | -4.947 | -31030 | -31150 | -31190 | -31080 | -31130 | -31130 | -31320 | -31760 | .49670 | .45730 |
| 1.402 | -2.451 | -30890 | -30980 | -31120 | -31050 | -30940 | -30940 | -31110 | -31480 | .49490 | .45690 |
| 1.403 | -1.103 | -30730 | -30860 | -30840 | -30970 | -30860 | -30860 | -31050 | -31390 | .49620 | .45720 |
| 1.403 | 2.496 | -30980 | -30940 | -31050 | -31130 | -30770 | -30770 | -31090 | -31400 | .49630 | .45780 |
| 1.404 | 5.014 | -30840 | -30960 | -31100 | -30950 | -30980 | -30980 | -31120 | -31370 | .49750 | .45810 |
| 1.404 | 10.027 | -31280 | -31260 | -31340 | -31340 | -31170 | -31170 | -31420 | -31690 | .49670 | .45910 |
| 1.403 | 15.014 | -31890 | -31890 | -31930 | -31960 | -31810 | -31810 | -31870 | -32230 | .49400 | .45660 |
| 1.403 | 18.107 | -32040 | -32160 | -32210 | -32130 | -31750 | -31750 | -31980 | -32360 | .49680 | .45860 |
| 1.403 | 22.827 | -32360 | -32610 | -32540 | -32490 | -32140 | -32140 | -32300 | -32680 | .49550 | .45780 |
| | GRADIENT | .00012 | .00030 | .00028 | .00003 | .00047 | .00047 | .00030 | .00047 | .00000 | .00007 |

0A145 TABULATED FORCE DATA

AMES 118-1-11 0A145A 01

(E2F078) (08 JUL 77)

DATE 10 MAR 80

REFERENCE DATA

| | | | | | | | |
|---|-------|---|-----------|--------|---|-----------|--------|
| = | SREF | = | 2690.0000 | SQ.FT. | = | 1076.6800 | IN. X0 |
| = | LREF | = | 474.8100 | INCHES | = | .0000 | IN. Y0 |
| = | BREF | = | 936.6800 | INCHES | = | 375.0000 | IN. Z0 |
| = | SCALE | = | .0500 | | | | |

ALPHA
ELEVON
BOFLAP
RN/L

| | | |
|--------|---|------|
| BETA | = | .000 |
| AILRON | = | .000 |
| SPDBRK | = | .000 |

PARAMETRIC DATA

| | | | | | |
|---------|--------|--------|------|---------------------|-------------|
| RUN NO. | 651/ 0 | RN/L = | 4.99 | GRADIENT INTERVAL = | -5.00/ 5.00 |
|---------|--------|--------|------|---------------------|-------------|

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|---------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| .598 | -14.970 | -22880 | -23430 | -22690 | -23380 | -32510 | -32510 | -34400 | -35300 | .16520 | .12620 |
| .599 | -10.762 | -22720 | -22360 | -22840 | -22770 | -31330 | -31330 | -33770 | -35180 | .16660 | .12950 |
| .598 | -4.954 | -22730 | -22130 | -22700 | -22540 | -30820 | -30820 | -33130 | -34610 | .17150 | .13320 |
| .598 | -2.434 | -22480 | -22390 | -22340 | -22650 | -31260 | -31260 | -33880 | -34850 | .16960 | .12940 |
| .598 | -1.110 | -22380 | -22100 | -22050 | -22360 | -31220 | -31220 | -34040 | -35080 | .16610 | .12890 |
| .598 | 2.513 | -22120 | -22260 | -22400 | -21720 | -31280 | -31280 | -33910 | -34710 | .16580 | .13010 |
| .598 | 5.024 | -22110 | -22840 | -22440 | -22700 | -31270 | -31270 | -33690 | -35030 | .12910 | .12910 |
| .598 | 10.003 | -22330 | -23003 | -22850 | -23200 | -31150 | -31150 | -33340 | -34540 | .16480 | .13000 |
| .598 | 15.022 | -23100 | -23410 | -22630 | -23600 | -30910 | -30910 | -33780 | -34580 | .16730 | .13450 |
| .598 | 18.107 | -23350 | -23230 | -23090 | -23210 | -31250 | -31250 | -33530 | -35040 | .16460 | .13100 |
| .598 | 22.818 | -24460 | -23230 | -24170 | -23210 | -31970 | -31970 | -33850 | -35800 | .16770 | .12790 |
| .598 | 26.818 | -24678 | -24010 | -24170 | -24112 | -30054 | -30054 | -30101 | -30029 | -.00083 | -.00033 |

| | | | | | |
|---------|--------|--------|------|---------------------|-------------|
| RUN NO. | 639/ 0 | RN/L = | 4.95 | GRADIENT INTERVAL = | -5.00/ 5.00 |
|---------|--------|--------|------|---------------------|-------------|

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|---------|----------|----------|----------|----------|----------|----------|----------|----------|--------|--------|
| .900 | -14.970 | -30410 | -31070 | -31300 | -30980 | -41990 | -41990 | -42850 | -43660 | .27990 | .22760 |
| .900 | -10.780 | -30150 | -30070 | -30280 | -29600 | -41030 | -41030 | -42510 | -43290 | .27920 | .22910 |
| .900 | -4.954 | -29660 | -29140 | -29870 | -29230 | -41260 | -41260 | -42240 | -42820 | .27730 | .22760 |
| .901 | -2.425 | -30370 | -29850 | -29850 | -29710 | -40800 | -40800 | -42080 | -42470 | .28130 | .23110 |
| .899 | - .096 | -30580 | -30550 | -30790 | -29780 | -41410 | -41410 | -43050 | -44000 | .27660 | .22650 |
| .900 | 2.488 | -29890 | -30690 | -29580 | -29720 | -40730 | -40730 | -43060 | -43260 | .27890 | .23020 |
| .899 | 5.024 | -30350 | -29830 | -30420 | -30160 | -42000 | -42000 | -42410 | -43360 | .27550 | .22500 |
| .901 | 15.014 | -30420 | -30240 | -29380 | -30190 | -40840 | -40840 | -42910 | -43580 | .27700 | .23130 |
| .899 | 18.107 | -32000 | -31150 | -30680 | -31370 | -41550 | -41550 | -42970 | -43140 | .27710 | .22830 |
| .900 | 22.836 | -31680 | -31020 | -31000 | -32000 | -41730 | -41730 | -43250 | -43800 | .27630 | .22800 |
| GRADIENT | | - .00036 | - .00216 | - .00940 | - .30900 | - .41480 | - .41480 | - .42680 | - .43800 | .28050 | .23060 |
| | | | | - .00110 | - .00062 | - .00042 | - .00042 | - .00138 | - .00112 | .00001 | .00014 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

AMES 118-1-11 OAI45A 01

(E2F078) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8100 INCHES YMRP = .0000 IN. Y0
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
SCALE = .0500

PARAMETRIC DATA

ALPHA = 15.000 BETA = .000
ELEVON = .000 AILRON = .000
BDFLAP = .000 SPDBRK = .000
RN/L = 5.000

RUN NO. 619/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.202 | -14.976 | -32750 | -32880 | -32860 | -32520 | -33240 | -33240 | -33280 | -34040 | .44590 | .36590 |
| 1.201 | -10.771 | -32220 | -32370 | -32270 | -32500 | -32820 | -32820 | -32490 | -34130 | .44510 | .36840 |
| 1.203 | -4.917 | -31830 | -31910 | -31930 | -32150 | -32510 | -32510 | -32940 | -33410 | .44590 | .37070 |
| 1.203 | -2.426 | -31690 | -31710 | -32030 | -31640 | -32720 | -32720 | -33130 | -33550 | .44640 | .36770 |
| 1.204 | -1.110 | -31420 | -31430 | -31290 | -31450 | -31950 | -31950 | -32810 | -32700 | .44840 | .37310 |
| 1.203 | 2.505 | -31770 | -31700 | -31880 | -32180 | -32550 | -32550 | -32850 | -33440 | .44680 | .36930 |
| 1.204 | 5.042 | -31530 | -31650 | -31900 | -31770 | -32520 | -32520 | -32890 | -33040 | .44660 | .37080 |
| 1.202 | 10.019 | -32220 | -32470 | -32590 | -32580 | -32710 | -32710 | -33380 | -33480 | .44430 | .36740 |
| 1.202 | 15.014 | -32550 | -32740 | -32660 | -32710 | -33130 | -33130 | -33800 | -33560 | .44470 | .37010 |
| 1.202 | 18.116 | -32770 | -32920 | -32870 | -32640 | -33190 | -33190 | -33730 | -34140 | .44470 | .36970 |
| 1.202 | 22.836 | -33330 | -33260 | -33230 | -33000 | -33440 | -33440 | -33890 | -34320 | .44470 | .37020 |
| 1.202 | GRADIENT | .00017 | .00036 | .00034 | .00002 | .00024 | .00024 | .00020 | .00028 | .00018 | .00003 |

RUN NO. 608/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.395 | -14.976 | -33330 | -33410 | -33500 | -33580 | -31800 | -31800 | -31970 | -32380 | .50600 | .45070 |
| 1.394 | -10.727 | -33160 | -33290 | -33210 | -33320 | -31640 | -31640 | -31780 | -32070 | .50590 | .45050 |
| 1.394 | -4.939 | -32730 | -33010 | -33020 | -32930 | -31330 | -31330 | -31640 | -31920 | .50610 | .45220 |
| 1.396 | -2.426 | -32630 | -32670 | -32760 | -32760 | -31280 | -31280 | -31450 | -31870 | .50690 | .45250 |
| 1.395 | -1.110 | -32590 | -32770 | -32650 | -32670 | -31220 | -31220 | -31430 | -31780 | .50700 | .45140 |
| 1.395 | 2.505 | -32490 | -32800 | -32740 | -32800 | -31290 | -31290 | -31510 | -31850 | .50790 | .45200 |
| 1.395 | 5.014 | -32860 | -32900 | -32870 | -32780 | -31380 | -31380 | -31590 | -32010 | .50640 | .45130 |
| 1.396 | 10.019 | -33090 | -33180 | -33110 | -33040 | -31390 | -31390 | -31710 | -32090 | .50890 | .45370 |
| 1.395 | 15.005 | -33370 | -33400 | -33370 | -33370 | -31730 | -31730 | -31880 | -32300 | .50680 | .45230 |
| 1.397 | 18.134 | -33330 | -33410 | -33380 | -33280 | -31690 | -31690 | -31900 | -32240 | .50740 | .45270 |
| 1.395 | 22.836 | -33810 | -33940 | -33910 | -33950 | -31980 | -31980 | -32250 | -32560 | .50640 | .45240 |
| 1.395 | GRADIENT | .00031 | .00022 | .00038 | .00019 | .00007 | .00007 | .00016 | .00012 | .00022 | .00007 |

AMES 118-1-11 OAI45A 01

(E2F079) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = .000 RUDDER = -5.000
 RN/L = 5.000

RUN NO. 652/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .598 | -5.064 | -20250 | -19990 | -20390 | -20390 | -21740 | -21740 | -21810 | -21880 | -03700 | -04200 |
| .600 | -0.070 | -19270 | -18820 | -19080 | -19080 | -20000 | -20000 | -20430 | -20610 | -08550 | -07020 |
| .597 | 2.440 | -19710 | -19830 | -19640 | -19970 | -21680 | -21680 | -22200 | -22960 | -12370 | -10090 |
| .596 | 4.903 | -19890 | -19870 | -19750 | -20080 | -22930 | -22930 | -23800 | -25550 | -15250 | -12880 |
| .598 | 6.992 | -20080 | -19870 | -19700 | -19890 | -24180 | -24180 | -25990 | -27870 | -17560 | -14460 |
| .597 | 8.044 | -20050 | -20280 | -19950 | -20210 | -24500 | -24500 | -26940 | -29440 | -17780 | -15180 |
| .598 | 10.100 | -20040 | -19660 | -19900 | -19450 | -25560 | -25560 | -28580 | -31870 | -18740 | -15520 |
| .597 | 12.122 | -21050 | -20240 | -20890 | -20770 | -27500 | -27500 | -30990 | -34440 | -18690 | -14790 |
| .598 | 15.144 | -22020 | -22190 | -22570 | -22660 | -31510 | -31510 | -33110 | -34190 | -16630 | -12570 |
| GRADIENT | | -00125 | -00198 | -00135 | -00202 | -00589 | -00589 | -00678 | -00993 | -01348 | -01178 |

RUN NO. 640/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .900 | -5.118 | -25630 | -25330 | -24950 | -25910 | -28190 | -28190 | -29850 | -29260 | -09070 | -08720 |
| .899 | -1.104 | -23170 | -23190 | -23280 | -23280 | -27770 | -27770 | -28120 | -28720 | -18210 | -15790 |
| .900 | 2.447 | -22900 | -22400 | -22380 | -22760 | -31270 | -31270 | -31480 | -32480 | -21360 | -18270 |
| .899 | 4.994 | -24370 | -23680 | -23700 | -23960 | -33890 | -33890 | -34090 | -35500 | -23880 | -20390 |
| .898 | 7.128 | -24480 | -24910 | -25040 | -24900 | -34020 | -34020 | -35830 | -35370 | -26310 | -22030 |
| .899 | 8.069 | -24510 | -24450 | -24890 | -24470 | -33710 | -33710 | -34580 | -35080 | -26770 | -23030 |
| .900 | 10.117 | -25600 | -25620 | -24960 | -26090 | -35140 | -35140 | -35320 | -35610 | -27550 | -22990 |
| .901 | 12.151 | -26130 | -25910 | -26480 | -26670 | -36890 | -36890 | -37060 | -37840 | -28270 | -23340 |
| .900 | 15.204 | -30210 | -30040 | -29540 | -29830 | -41390 | -41390 | -42240 | -42270 | -27810 | -22510 |
| GRADIENT | | -00235 | -00096 | -00065 | -00133 | -01200 | -01200 | -01171 | -01330 | -01112 | -00902 |

RUN NO. 624/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .950 | -5.060 | -28910 | -28760 | -28880 | -28810 | -33380 | -33380 | -40350 | -41250 | -13700 | -13530 |
| .952 | -0.016 | -26640 | -26500 | -26870 | -26920 | -35610 | -35610 | -36520 | -37620 | -22560 | -20210 |
| .951 | 2.439 | -27030 | -26400 | -26600 | -26950 | -36330 | -36330 | -37670 | -38770 | -25330 | -22240 |
| .952 | 4.921 | -25890 | -24600 | -25160 | -25200 | -33660 | -33660 | -34890 | -35730 | -28170 | -24300 |
| .950 | 6.953 | -24920 | -24820 | -25000 | -24460 | -33870 | -33870 | -34860 | -35290 | -30090 | -25590 |
| .951 | 7.992 | -25440 | -25460 | -24710 | -25010 | -34780 | -34780 | -35500 | -36010 | -30350 | -26060 |
| .949 | 10.017 | -26350 | -26550 | -26780 | -26330 | -35810 | -35810 | -37200 | -37750 | -31200 | -26610 |
| .951 | 12.024 | -15800 | -19790 | -34800 | -27650 | -38110 | -38110 | -39310 | -40000 | -31890 | -26690 |
| .950 | 15.008 | -31100 | -31420 | -31100 | -30950 | -40740 | -40740 | -41510 | -42390 | -31690 | -26210 |
| GRADIENT | | -00152 | -00385 | -00347 | -00349 | -00396 | -00396 | -00332 | -00384 | -01136 | -00828 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(E2F079) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDRK = .000 RUDDER = -5.000
RN/L = 5.000

RUN NO. 610/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.203 | -5.094 | -28870 | -28980 | -28960 | -28890 | -28670 | -28670 | -28970 | -29460 | .33760 | .34550 |
| 1.204 | -.036 | -28850 | -28860 | -28770 | -28770 | -28840 | -28840 | -29320 | -29600 | .38920 | .39630 |
| 1.200 | 2.553 | -29160 | -29390 | -29250 | -29160 | -29600 | -29600 | -30320 | -30910 | .40360 | .35810 |
| 1.198 | 5.040 | -30300 | -30050 | -30320 | -30500 | -30960 | -30960 | -31680 | -31600 | .41540 | .36080 |
| 1.198 | 7.095 | -30540 | -30680 | -31080 | -31150 | -31240 | -31240 | -31450 | -31210 | .42780 | .36150 |
| 1.199 | 8.144 | -31010 | -30750 | -30700 | -31300 | -31460 | -31460 | -31790 | -31960 | .43150 | .36590 |
| 1.197 | 10.103 | -30470 | -30470 | -30510 | -30540 | -31500 | -31500 | -31500 | -32620 | .43700 | .36860 |
| 1.198 | 12.096 | -30620 | -30640 | -30500 | -30380 | -31600 | -31600 | -31980 | -32510 | .44170 | .36830 |
| 1.199 | 15.027 | -32190 | -32090 | -32130 | -32270 | -32670 | -32670 | -33080 | -33830 | .44490 | .36640 |
| | GRADIENT | -00120 | -00205 | -00185 | -00151 | -00294 | -00294 | -00386 | -00506 | .00556 | .00070 |

RUN NO. 601/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.396 | -5.000 | -28000 | -28230 | -28080 | -28090 | -28730 | -28730 | -29100 | -29420 | .40280 | .43000 |
| 1.400 | .053 | -28560 | -28700 | -28720 | -28520 | -28850 | -28850 | -29000 | -29380 | .44290 | .43430 |
| 1.403 | 2.545 | -28780 | -28710 | -28800 | -28800 | -29410 | -29410 | -29570 | -29840 | .45980 | .44330 |
| 1.399 | 5.087 | -29640 | -29600 | -29780 | -29720 | -30030 | -30030 | -30300 | -30540 | .48240 | .44580 |
| 1.399 | 7.175 | -30700 | -30740 | -30930 | -30750 | -30730 | -30730 | -31100 | -31440 | .49490 | .45200 |
| 1.400 | 8.202 | -30840 | -30710 | -31020 | -30930 | -31040 | -31040 | -31280 | -31570 | .49260 | .46040 |
| 1.397 | 10.250 | -31450 | -31490 | -31420 | -31570 | -31300 | -31300 | -31610 | -31720 | .49840 | .45880 |
| 1.397 | 12.290 | -31920 | -32070 | -32170 | -32380 | -31570 | -31570 | -31860 | -32030 | .50240 | .45210 |
| 1.397 | 15.272 | -32860 | -32960 | -32920 | -33000 | -31500 | -31500 | -31710 | -32040 | .50710 | .45400 |
| | GRADIENT | -00088 | -00004 | -00032 | -00112 | -00225 | -00225 | -00229 | -00185 | .00678 | .00361 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(E2F080) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDRK = .000 RUDDER = -5.000
 RN/L = 5.000

RUN NO. 653/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .598 | -6.051 | -20360 | -20500 | -19960 | -19960 | -23050 | -23050 | -23740 | -25580 | .29870 | -.01400 |
| .597 | -1.917 | -20080 | -19700 | -20030 | -19650 | -22780 | -22780 | -24240 | -25940 | .20340 | .08360 |
| .598 | -.872 | -19320 | -19250 | -19560 | -19700 | -22490 | -22490 | -24160 | -25480 | .17950 | .11110 |
| .598 | .006 | 61400 | -13630 | 02750 | 03390 | -23230 | -23230 | -23910 | .00000 | .15370 | .12800 |
| .598 | .499 | -19790 | -19720 | -19650 | -20010 | -23010 | -23010 | -24520 | -25910 | .14570 | .14150 |
| .597 | 1.032 | -19930 | -20290 | -20050 | -20260 | -23210 | -23210 | -24440 | -25970 | .13420 | .15460 |
| .597 | 2.102 | -19930 | -20170 | -20280 | -20190 | -22880 | -22880 | -24490 | -26050 | .11040 | .18470 |
| .598 | 3.148 | -20310 | -20360 | -20500 | -20360 | -23280 | -23280 | -24910 | -26460 | .07970 | .20720 |
| .597 | 4.173 | -21020 | -20900 | -20800 | -21020 | -23500 | -23500 | -24890 | -26260 | .05620 | .23080 |
| .598 | 6.230 | -21310 | -21240 | -21480 | -21340 | -23760 | -23760 | -24600 | -26210 | .00980 | .28010 |
| | GRADIENT | -.03005 | -.00436 | -.00957 | -.01013 | -.00117 | -.00117 | -.00140 | -.01010 | -.02408 | .02432 |

RUN NO. 641/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| .902 | -6.112 | -21880 | -21510 | -21600 | -21430 | -28950 | -28950 | -30430 | -30910 | .39100 | .05850 |
| .901 | -1.952 | -22550 | -22500 | -22240 | -22720 | -31760 | -31760 | -32320 | -33540 | .29440 | .15620 |
| .900 | -.902 | -22700 | -23110 | -23030 | -22380 | -31920 | -31920 | -32990 | -34450 | .26670 | .18500 |
| .900 | .158 | -23600 | -23600 | -23220 | -23230 | -32600 | -32600 | -34390 | -35170 | .24250 | .21150 |
| .900 | .638 | -23730 | -23410 | -23670 | -23310 | -32960 | -32960 | -33750 | -34440 | .22980 | .22210 |
| .900 | 1.163 | -24080 | -27750 | -23680 | -23370 | -32060 | -32060 | -32900 | -34010 | .21830 | .23900 |
| .899 | 2.215 | -23520 | -24450 | -24320 | -24460 | -32340 | -32340 | -32690 | -34270 | .19040 | .26330 |
| .899 | 3.264 | -25240 | -25430 | -25270 | -25390 | -32850 | -32850 | -34270 | -34590 | .17020 | .28980 |
| .898 | 4.302 | -26340 | -25840 | -26130 | -25700 | -34170 | -34170 | -34480 | -34270 | .14420 | .31160 |
| .895 | 6.375 | -27800 | -27800 | -28200 | -28100 | -35690 | -35690 | -36870 | -35690 | .09130 | .36320 |
| | GRADIENT | -.00561 | -.00546 | -.00592 | -.00560 | -.00294 | -.00294 | -.00246 | -.00053 | -.02384 | .02497 |

RUN NO. 625/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| .950 | -6.137 | -24880 | -25430 | -25060 | -25280 | -32830 | -32830 | -34150 | -34880 | .42370 | .09000 |
| .952 | -2.039 | -24370 | -23810 | -23440 | -23860 | -31860 | -31860 | -32800 | -33580 | .33180 | .18990 |
| .951 | -.988 | -25080 | -24800 | -24120 | -24470 | -32850 | -32850 | -33230 | -34990 | .30610 | .21580 |
| .950 | .072 | -25870 | -25620 | -25920 | -25080 | -33700 | -33700 | -35040 | -35810 | .27880 | .24050 |
| .950 | .576 | -25160 | -25260 | -25830 | -25610 | -33560 | -33560 | -34890 | -35600 | .26880 | .25470 |
| .950 | 1.109 | -25440 | -25240 | -25700 | -24890 | -33690 | -33690 | -34610 | -35110 | .25440 | .26700 |
| .950 | 2.151 | -24950 | -25000 | -25700 | -24750 | -33340 | -33340 | -34670 | -35070 | .23210 | .29590 |
| .949 | 3.185 | -26560 | -26440 | -26340 | -26460 | -33740 | -33740 | -35620 | -36910 | .20850 | .32360 |
| .950 | 4.225 | -26950 | -27350 | -27500 | -27080 | -34550 | -34550 | -36570 | -37320 | .18680 | .34850 |
| .947 | 6.313 | -29380 | -29600 | -28600 | -29900 | -37750 | -37750 | -36750 | -39690 | .13380 | .39800 |
| | GRADIENT | -.00339 | -.00454 | -.00553 | -.00446 | -.00320 | -.00320 | -.00427 | -.00485 | -.02317 | .02557 |

(E2F080) (08 JUL 77)

PARAMETRIC DATA

| | | |
|---------|---|--------|
| ELEVON | = | .000 |
| 90°FLAP | = | .000 |
| RUDDER | = | -5.000 |

ALPHA
AILRON
SPDBRK
RN/L

| | | |
|---------|-----|----|
| 76.6800 | IN. | XO |
| .0000 | IN. | YO |
| 75.0000 | IN. | ZO |

XMRP
YMRP
ZMRP

| | | | |
|-------|---|-----------|--------|
| SREF | = | 2690.0000 | SQ.FT. |
| LREF | = | 474.8100 | INCHES |
| BREF | = | 936.6800 | INCHES |
| SCALE | = | .0500 | |

| | | | | | | |
|--------|---------|--------|------|---------------------|---------|------|
| FIN NO | 611 / 0 | RN/L = | 5.06 | GRADIENT INTERVAL = | -5.00 / | 5.00 |
|--------|---------|--------|------|---------------------|---------|------|

[illegible]

| | | | | | | |
|--------|--------|------|------|-------------------|--------|------|
| BIN NO | 602/ 0 | RN/L | 4.96 | GRADIENT INTERVAL | -5.00/ | 5.00 |
|--------|--------|------|------|-------------------|--------|------|

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| 1.404 | -6.144 | -28650 | -28550 | -28570 | -28430 | -29050 | -29050 | -29340 | -29580 | .58270 | .35800 |
| 1.405 | -1.988 | -29410 | -29390 | -29290 | -29140 | -30020 | -30020 | -30070 | -30270 | .50170 | .42320 |
| 1.403 | - | -29180 | -29210 | -29220 | -29200 | -29760 | -29760 | -30010 | -30380 | .49290 | .43590 |
| 1.402 | .156 | -29400 | -29480 | -29480 | -29510 | -29950 | -29950 | -30300 | -30500 | .48160 | .44440 |
| 1.403 | .648 | -29590 | -29590 | -29710 | -29620 | -29840 | -29840 | -30160 | -30420 | .47770 | .44960 |
| 1.402 | 1.169 | -29630 | -29640 | -29710 | -29630 | -29910 | -29910 | -30260 | -30550 | .47710 | .45380 |
| 1.403 | 2.226 | -29700 | -29580 | -29780 | -29660 | -29860 | -29860 | -30150 | -30450 | .47030 | .46490 |
| 1.402 | 3.277 | -29660 | -29600 | -29550 | -29580 | -29800 | -29800 | -29810 | -30350 | .44980 | .48330 |
| 1.403 | 4.326 | -29580 | -29750 | -29710 | -29890 | -29890 | -29890 | -30060 | -30200 | .42030 | .50100 |
| 1.400 | 6.404 | -28860 | -29100 | -28880 | -28890 | -29010 | -29010 | -29160 | -29490 | .34890 | .55010 |
| GRADIENT | - | -00060 | -00065 | -00072 | -00080 | -00013 | -00013 | -00020 | -00011 | -.01166 | .01191 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1831

(E2F081) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

ALPHA =
AILRON =
SPDBRK =
RN/L =

ELEVON = .000
BDFLAP = .000
RUDDER = -22.800

PARAMETRIC DATA

RUN NO. 603/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| 1.400 | -6.102 | -30100 | -30000 | -29980 | -29980 | -30370 | -30370 | -30500 | -30710 | .58510 | .35770 |
| 1.403 | -1.957 | -30950 | -30920 | -30960 | -31000 | -31240 | -31240 | -31510 | -31680 | .50390 | .42400 |
| 1.402 | .910 | -31320 | -31240 | -31310 | -31060 | -31410 | -31410 | -31650 | -31810 | .49270 | .43430 |
| 1.403 | .164 | -31330 | -31310 | -31310 | -31310 | -31590 | -31590 | -31860 | -31940 | .48140 | .44560 |
| 1.403 | .663 | -31280 | -31190 | -31300 | -31320 | -31390 | -31390 | -31570 | -31870 | .47860 | .45010 |
| 1.403 | 1.186 | -31440 | -31300 | -31340 | -31300 | -31500 | -31500 | -31500 | -31820 | .47320 | .45180 |
| 1.403 | 2.239 | -31060 | -31130 | -31080 | -31120 | -31170 | -31170 | -31450 | -31560 | .46840 | .46400 |
| 1.403 | 3.285 | -30890 | -30660 | -30770 | -30830 | -30900 | -30900 | -31030 | -31270 | .44920 | .47990 |
| 1.402 | 4.332 | -30500 | -30420 | -30610 | -30540 | -30390 | -30390 | -30530 | -31080 | .41930 | .50430 |
| 1.402 | 6.410 | -29740 | -29800 | -29620 | -29550 | -29300 | -29300 | -29590 | -29990 | .35090 | .55270 |
| 1.402 | GRADIENT | .00087 | .00099 | .00083 | .00073 | .00138 | .00138 | .00158 | .00114 | -.01210 | .01197 |

AMES 118-1-11 OAI45A 01

(E2F082) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

BETA =
AILRON =
SPDBRK =
RN/L =

ELEVON = .000
BDFLAP = .000
RUDDER = -11.700

PARAMETRIC DATA

RUN NO. 662/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .397 | -5.052 | -.21000 | -.05420 | -.05630 |
| .397 | -.099 | -.21550 | .05840 | .04120 |
| .397 | 2.419 | -.22360 | .10000 | .08190 |
| .397 | 4.925 | -.23190 | .13180 | .11510 |
| .396 | 6.963 | -.24940 | .14520 | .12710 |
| .396 | 7.966 | -.25320 | .15530 | .13250 |
| .396 | 10.013 | -.27110 | .16070 | .13270 |
| .397 | 15.116 | -.32000 | .13780 | .10130 |
| | GRADIENT | -.00326 | .01461 | .01471 |

OAI45 TABULATED FORCE DATA

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO

LREF = 474.8100 INCHES YMRP = .0000 IN. YO

BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO

SCALE = .0500

RUN NO. 657/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 | BETA | ELEVON | BDFLAP | RUDDER | RN/L |
|------|----------|---------|---------|---------|------|--------|--------|--------|------|
| .599 | -4.913 | -.22670 | -.03310 | -.03490 | .000 | .000 | .000 | .000 | .000 |
| .598 | .006 | -.21330 | -.08640 | -.07060 | .000 | .000 | .000 | .000 | .000 |
| .598 | 2.457 | -.22760 | .12600 | .10120 | .000 | .000 | .000 | .000 | .000 |
| .597 | 4.962 | -.23850 | .15290 | .13010 | .000 | .000 | .000 | .000 | .000 |
| .596 | 7.021 | -.25580 | .17090 | .14150 | .000 | .000 | .000 | .000 | .000 |
| .597 | 8.044 | -.25700 | .17730 | .14920 | .000 | .000 | .000 | .000 | .000 |
| .597 | 10.096 | -.27080 | .18020 | .14790 | .000 | .000 | .000 | .000 | .000 |
| .598 | 15.145 | -.31600 | .16470 | .12550 | .000 | .000 | .000 | .000 | .000 |
| | GRADIENT | -.00115 | .01922 | .01688 | | | | | |

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO

LREF = 474.8100 INCHES YMRP = .0000 IN. YO

BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO

SCALE = .0500

RUN NO. 663/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 | ALPHA | ELEVON | BDFLAP | RUDDER | RN/L |
|------|----------|---------|---------|---------|--------|--------|--------|--------|------|
| .397 | -5.007 | -.31740 | .25330 | -.14920 | 19.000 | .000 | .000 | .000 | .000 |
| .396 | -3.993 | -.31970 | .21910 | -.11320 | .000 | .000 | .000 | .000 | .000 |
| .396 | -1.920 | -.32330 | .14190 | -.03300 | .000 | .000 | .000 | .000 | .000 |
| .396 | -.884 | -.32160 | .10680 | .00410 | .000 | .000 | .000 | .000 | .000 |
| .397 | .144 | -.30730 | .07940 | .05070 | .000 | .000 | .000 | .000 | .000 |
| .397 | 1.173 | -.30780 | .03930 | .08620 | .000 | .000 | .000 | .000 | .000 |
| .397 | 2.191 | -.31180 | .00240 | .12340 | .000 | .000 | .000 | .000 | .000 |
| .397 | 4.255 | -.31720 | -.06740 | .19900 | .000 | .000 | .000 | .000 | .000 |
| .397 | 5.287 | -.32470 | -.09140 | .23200 | .000 | .000 | .000 | .000 | .000 |
| | GRADIENT | .00108 | -.03450 | .03804 | | | | | |

PARAMETRIC DATA

ALPHA = 19.000 ELEVON = .000

AIRLON = .000 BDFLAP = -11.700

SPDBRK = .000 RUDDER = .000

RN/L = 5.000

DATE 10 MAR 80

OA145 TABULATED FORCE DATA

PAGE 1833

AMES 118-1-11 OA145A 01

(E2F083) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA =
AILRON =
SPDBRK =
RN/L =
ELEVON =
BDFLAP =
RUDDER =

RUN NO. 658/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .597 | -5.019 | -.37070 | .28780 | -.12090 |
| .598 | -4.000 | -.36830 | .25120 | -.07900 |
| .597 | -1.936 | -.36380 | .18620 | .00300 |
| .598 | -.896 | -.36170 | .15270 | .04100 |
| .598 | .138 | -.36100 | .11650 | .07930 |
| .599 | 1.175 | -.35720 | .08160 | .11930 |
| .599 | 2.201 | -.36020 | .04570 | .15550 |
| .599 | 4.276 | -.35700 | -.02990 | .23230 |
| .598 | 5.307 | -.36240 | -.06040 | .26400 |
| | GRADIENT | .00131 | -.03398 | .03748 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA =
AILRON =
SPDBRK =
RN/L =
ELEVON =
BDFLAP =
RUDDER =

AMES 118-1-11 OA145A 01

(E2F084) (06 MAR 80)

RUN NO. 906/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .599 | -5.219 | -.21090 | -.04270 | -.03970 |
| .598 | -.240 | -.20040 | .08130 | .06810 |
| .597 | 2.284 | -.20900 | .12070 | .10480 |
| .601 | 4.818 | -.23190 | .15390 | .13430 |
| .598 | 7.859 | -.23860 | .17520 | .15330 |
| .596 | 9.960 | -.25010 | .18300 | .15030 |
| .596 | 11.968 | -.26750 | .17590 | .14780 |
| .599 | 14.976 | -.31760 | .16440 | .12600 |
| .598 | 16.975 | -.34470 | .14280 | .10800 |
| .597 | 18.969 | -.38900 | .11030 | .07810 |
| | GRADIENT | -.00425 | .01435 | .01309 |

OAI45 TABULATED FORCE DATA

APES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO

LREF = 474.8100 INCHES YMRP = .0000 IN. YO

BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO

SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000

AILRON = .000 BOFLAP = .000

SPOBRK = 7.500 RUDDER = .000

RN/L = 5.000

| RUN NO. 904/ 0 | | RN/L = 4.97 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|--|-------------|--|---------------------------------|--|
| MACH | | ALPHA | | CP240 | |
| .799 | | -5.257 | | -.23570 | |
| .802 | | -2.228 | | -.22950 | |
| .797 | | 2.285 | | -.23400 | |
| .798 | | 4.818 | | -.24690 | |
| .799 | | 7.935 | | -.27460 | |
| .799 | | 9.988 | | -.29920 | |
| .798 | | 11.987 | | -.34630 | |
| .799 | | 15.038 | | -.40450 | |
| .798 | | 17.032 | | -.43670 | |
| .798 | | 18.998 | | -.46460 | |
| | | GRADIENT | | -.00424 | |

| RUN NO. 901/ 0 | | RN/L = 4.98 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|--|-------------|--|---------------------------------|--|
| MACH | | ALPHA | | CP240 | |
| .900 | | -5.281 | | -.28870 | |
| .899 | | -2.261 | | -.26860 | |
| .899 | | 2.287 | | -.29260 | |
| .900 | | 4.844 | | -.33120 | |
| .903 | | 7.961 | | -.35370 | |
| .899 | | 9.988 | | -.35940 | |
| .900 | | 12.006 | | -.37450 | |
| .903 | | 15.065 | | -.43570 | |
| .901 | | 17.038 | | -.45830 | |
| .902 | | 19.016 | | -.47000 | |
| | | GRADIENT | | -.01227 | |

| RUN NO. 899/ 0 | | RN/L = 4.99 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|--|-------------|--|---------------------------------|--|
| MACH | | ALPHA | | CP240 | |
| .953 | | -5.294 | | -.37920 | |
| .949 | | -2.273 | | -.34800 | |
| .951 | | 2.304 | | -.36780 | |
| .951 | | 4.859 | | -.32430 | |
| .952 | | 7.988 | | -.36220 | |
| .950 | | 10.022 | | -.38530 | |
| .952 | | 12.038 | | -.40540 | |
| .951 | | 15.065 | | -.43940 | |
| .946 | | 17.046 | | -.46850 | |
| .950 | | 18.994 | | -.46760 | |
| | | GRADIENT | | .00460 | |

| CP12 | | CP13 | |
|--------|--------|--------|--------|
| .08930 | .08840 | .02160 | .02160 |
| .18320 | .16350 | .11310 | .11310 |
| .21570 | .19200 | .14160 | .14160 |
| .24270 | .21130 | .16320 | .16320 |
| .26960 | .23300 | .18030 | .18030 |
| .28000 | .23810 | .19400 | .19400 |
| .28650 | .24130 | .18710 | .18710 |
| .28660 | .23130 | .17620 | .17620 |
| .26610 | .22350 | .16480 | .16480 |
| .25340 | .21130 | .14270 | .14270 |
| .01166 | .00936 | .00993 | .00993 |

| CP12 | | CP13 | |
|--------|--------|--------|--------|
| .08930 | .08840 | .02160 | .02160 |
| .18320 | .16350 | .11310 | .11310 |
| .21570 | .19200 | .14160 | .14160 |
| .24270 | .21130 | .16320 | .16320 |
| .26960 | .23300 | .18030 | .18030 |
| .28000 | .23810 | .19400 | .19400 |
| .28650 | .24130 | .18710 | .18710 |
| .28660 | .23130 | .17620 | .17620 |
| .26610 | .22350 | .16480 | .16480 |
| .25340 | .21130 | .14270 | .14270 |
| .01166 | .00936 | .00993 | .00993 |

| CP12 | | CP13 | |
|--------|--------|--------|--------|
| .08930 | .08840 | .02160 | .02160 |
| .18320 | .16350 | .11310 | .11310 |
| .21570 | .19200 | .14160 | .14160 |
| .24270 | .21130 | .16320 | .16320 |
| .26960 | .23300 | .18030 | .18030 |
| .28000 | .23810 | .19400 | .19400 |
| .28650 | .24130 | .18710 | .18710 |
| .28660 | .23130 | .17620 | .17620 |
| .26610 | .22350 | .16480 | .16480 |
| .25340 | .21130 | .14270 | .14270 |
| .01166 | .00936 | .00993 | .00993 |

| CP12 | | CP13 | |
|--------|--------|--------|--------|
| .08930 | .08840 | .02160 | .02160 |
| .18320 | .16350 | .11310 | .11310 |
| .21570 | .19200 | .14160 | .14160 |
| .24270 | .21130 | .16320 | .16320 |
| .26960 | .23300 | .18030 | .18030 |
| .28000 | .23810 | .19400 | .19400 |
| .28650 | .24130 | .18710 | .18710 |
| .28660 | .23130 | .17620 | .17620 |
| .26610 | .22350 | .16480 | .16480 |
| .25340 | .21130 | .14270 | .14270 |
| .01166 | .00936 | .00993 | .00993 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(E2F085) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
ATLRON = .000 BOFLAP = .000
SPDBRK = 7.500 RUDDER = .000
RN/L = 5.000

RUN NO. 907/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|--------|--------|--------|
| .597 | -5.251 | -21100 | -07150 | -00920 |
| .600 | -1.252 | -20090 | .03970 | .10850 |
| .598 | 2.309 | -21260 | .07560 | .15010 |
| .597 | 4.929 | -23160 | .10400 | .17930 |
| .598 | 8.026 | -24120 | .12390 | .20320 |
| .597 | 10.057 | -25010 | .13440 | .20890 |
| .597 | 12.075 | -27240 | .12980 | .20570 |
| .597 | 15.063 | -31390 | .10430 | .18910 |
| .596 | 17.047 | -34780 | .07230 | .17080 |
| .597 | 18.985 | -38850 | .04230 | .14340 |
| | GRADIENT | -00593 | .01240 | .01365 |

RUN NO. 905/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|--------|--------|--------|
| .799 | -5.272 | -24060 | -01330 | .05020 |
| .797 | -2.268 | -22810 | .08220 | .15510 |
| .798 | 2.290 | -23670 | .12120 | .19140 |
| .798 | 4.935 | -24970 | .14370 | .21950 |
| .799 | 8.062 | -27270 | .17170 | .24650 |
| .800 | 10.105 | -30070 | .17550 | .25540 |
| .798 | 12.085 | -33590 | .18230 | .25740 |
| .798 | 15.111 | -40710 | .16190 | .24130 |
| .801 | 17.085 | -43560 | .14450 | .23600 |
| .800 | 19.038 | -45360 | .12340 | .21880 |
| | GRADIENT | -00416 | .01180 | .01237 |

RUN NO. 902/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|--------|--------|--------|
| .899 | -5.278 | -31840 | .05310 | .11860 |
| .901 | -2.251 | -29580 | .13990 | .20990 |
| .900 | 2.311 | -32720 | .16680 | .23630 |
| .898 | 4.937 | -32510 | .19600 | .26680 |
| .896 | 8.065 | -34960 | .21870 | .28790 |
| .896 | 10.086 | -37190 | .22260 | .29300 |
| .893 | 12.139 | -39340 | .22400 | .29660 |
| .900 | 15.123 | -43170 | .22260 | .30050 |
| .899 | 17.102 | -46930 | .20940 | .28800 |
| .902 | 19.062 | -46560 | .19100 | .28150 |
| | GRADIENT | -00562 | .01081 | .01097 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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(E2F085) (06 MAR 80)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETA = 2.000
ELEVON = .000
AILRON = .000
BDFLAP = .000
SPDBRK = 7.500
RUDDER = .000
RN/L = 5.000

RUN NO. 900/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|--------|--------|
| .951 | -5.322 | -.37940 | .10010 | .16830 |
| .950 | -.263 | -.35660 | .17450 | .24340 |
| .951 | 2.301 | -.36590 | .20570 | .27680 |
| .953 | 4.932 | -.32610 | .23210 | .30030 |
| .953 | 8.061 | -.35640 | .25250 | .32170 |
| .951 | 10.129 | -.38590 | .25740 | .32600 |
| .952 | 12.137 | -.41020 | .26300 | .32910 |
| .951 | 15.160 | -.45100 | .25280 | .32640 |
| .949 | 17.095 | -.46410 | .24340 | .32200 |
| .950 | 19.061 | -.46440 | .22790 | .31050 |
| | GRADIENT | .00591 | .01108 | .01054 |

AMES 118-1-11 OAI45A 01

(E2F086) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 5.000
ELEVON = .000
AILRON = .000
BDFLAP = .000
SPDBRK = 7.500
RN/L = 5.000

RUN NO. 908/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP240 | CP12 | CP13 |
|------|----------|---------|--------|--------|
| .598 | -10.762 | -.22880 | .15170 | .13130 |
| .598 | -4.939 | -.22780 | .14820 | .12990 |
| .598 | -2.434 | -.21930 | .15310 | .13550 |
| .598 | -.103 | -.22500 | .15150 | .13030 |
| .598 | 2.496 | -.22120 | .15210 | .13380 |
| .598 | 5.014 | -.22160 | .14790 | .13290 |
| .598 | 10.011 | -.22490 | .15180 | .13260 |
| | GRADIENT | .00059 | .00045 | .00028 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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(E2F086) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 AILRON = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO BDFLAP = .000 SPDGRK = 7.500
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 503/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00
 MACH RUDDER CP240 CP12 CP13
 .901 -10.771 -.32940 .24540 .21570
 .901 -4.961 -.32930 .24350 .21270
 .900 -2.459 -.32850 .24370 .21270
 .901 -.110 -.32040 .24590 .21570
 .901 2.522 -.32180 .24470 .21460
 .901 5.014 -.32060 .24360 .21500
 .901 10.011 -.32370 .24400 .21460
 GRADIENT .00122 .00023 .00034

AMES 118-1-11 OAI45A 01

(E2F087) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO BETA = .000 ELEVON = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO BDFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDGRK = 15.000 RUDDER = .000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 705/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00
 MACH ALPHA CP225 CP228 CP231 CP234 CP237 CP240 CP243 CP246 CP12 CP13
 .599 -5.021 -.20040 -.19780 -.20230 -.19590 -.21240 -.21240 -.21390 -.21880 -.03930 -.03370
 .600 -.730 -.19290 -.19290 -.19620 -.19340 -.20230 -.20230 -.20200 -.20390 -.06950 -.05860
 .598 -.026 -.20030 -.19730 -.19990 -.19630 -.20610 -.20610 -.20910 -.20990 -.08040 -.06770
 .598 2.464 -.19840 -.19650 -.19910 -.19670 -.21590 -.21590 -.22180 -.22870 -.12080 -.10420
 .598 4.875 -.19870 -.19540 -.20280 -.19950 -.22620 -.22620 -.23990 -.25460 -.15020 -.13300
 .598 6.905 -.19780 -.19920 -.20160 -.19940 -.23610 -.23610 -.25530 -.27250 -.17670 -.15100
 .598 7.928 -.19960 -.19890 -.19790 -.19510 -.24660 -.24660 -.26250 -.29040 -.17690 -.15350
 .598 10.080 -.20020 -.20020 -.20470 -.20160 -.25590 -.25590 -.28290 -.31480 -.18470 -.15510
 .598 12.074 -.20400 -.20540 -.20760 -.19710 -.26810 -.26810 -.30530 -.33970 -.18470 -.15390
 .598 15.094 -.22520 -.22420 -.23040 -.22490 -.31670 -.31670 -.33800 -.34650 -.16710 -.12680
 GRADIENT -.00056 -.00019 -.00090 -.00090 -.00419 -.00419 -.00419 -.00649 -.01455 -.01343

REFERENCE DATA

| | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|--------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP | = | 1075.6800 | IN. XO |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. YO |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. ZO |
| SCALE | = | .0500 | | | | | |

BETA
AILRON
SPOBRK
RN/L

• • • •

PARAMETRIC DATA

| | | | |
|---------|--------|-------------|---------------------------------|
| RUN NO. | 699/ 0 | RN/L = 4.93 | GRADIENT INTERVAL = -5.00/ 5.00 |
|---------|--------|-------------|---------------------------------|

[illegible]

| | | | |
|---------|--------|-------------|---------------------------------|
| RUN NO. | 693/ 0 | RN/L = 4.98 | GRADIENT INTERVAL = -5.00/ 5.00 |
|---------|--------|-------------|---------------------------------|

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|----------|--------|--------|--------|---------|---------|---------|---------|--------|--------|
| .900 | -5.101 | -25170 | -24580 | -24770 | -25120 | -29160 | -29160 | -28900 | -30730 | .08510 | .08730 |
| .902 | -22700 | -22700 | -22590 | -22670 | -23240 | -28160 | -28160 | -28810 | -29170 | .18100 | .16140 |
| .900 | -23080 | -23080 | -22560 | -22630 | -23060 | -30750 | -30750 | -30720 | -32150 | .18730 | .18730 |
| .901 | 4.988 | -23120 | -22260 | -22490 | -22400 | -32370 | -32370 | -33320 | -33850 | .24300 | .21210 |
| .902 | 7.071 | -23470 | -23850 | -22910 | -23610 | -32470 | -32470 | -33960 | -34270 | .22820 | .22820 |
| .901 | 8.097 | -23640 | -24050 | -23910 | -24630 | -33280 | -33280 | -33630 | -34520 | .27070 | .23310 |
| .900 | 10.128 | -24810 | -24580 | -24050 | -24960 | -33830 | -33830 | -34710 | -35020 | .27930 | .23640 |
| .902 | 12.172 | -25780 | -25600 | -25970 | -24810 | -36180 | -36180 | -36350 | -37070 | .28270 | .23710 |
| .904 | 15.196 | -28560 | -28050 | -29030 | -28360 | -40800 | -40800 | -41520 | -42070 | .27830 | .23260 |
| | GRADIENT | - .00083 | .00104 | .00035 | .00165 | -.00828 | -.00828 | -.00887 | -.00921 | .01219 | .00997 |

| | | |
|---------------------|--------|------|
| GRADIENT INTERVAL = | -5.00/ | 5.00 |
| BN/1 = | 4 | 94 |
| BN/0 | 590/ | 0 |
| BN/10 | 590/ | 0 |

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .952 | -4.960 | -27780 | -27890 | -27100 | -27890 | -38230 | -38230 | -38230 | -40100 | .14140 | .14450 |
| .951 | .083 | -27080 | -26750 | -26770 | -26750 | -35800 | -35800 | -36540 | -37580 | .22110 | .20090 |
| .949 | 2.656 | -26760 | -26710 | -26280 | -27010 | -36240 | -36240 | -38090 | -39050 | .22320 | .22320 |
| .946 | -26050 | -25750 | -25830 | -25830 | -26030 | -34010 | -34010 | -35270 | -35940 | .27460 | .24050 |
| .945 | 5.202 | -25370 | -25180 | -25420 | -25650 | -34430 | -34430 | -35600 | -35530 | .29340 | .25600 |
| .945 | 7.290 | -25320 | -25290 | -25620 | -26250 | -34880 | -34880 | -36000 | -37030 | .29810 | .26140 |
| .947 | 8.261 | -25290 | -25290 | -25860 | -26370 | -36330 | -36330 | -36520 | -37380 | .30860 | .26590 |
| .950 | 10.352 | -25660 | -25800 | -29190 | -29320 | -37960 | -37960 | -40090 | -40750 | .30860 | .26190 |
| .943 | 12.388 | -28280 | -29200 | -33370 | -33390 | -42760 | -42760 | -44340 | -45400 | .29880 | .24970 |
| .939 | 15.425 | -33040 | -32360 | -33370 | -33390 | -42760 | -42760 | -44340 | -45400 | .01430 | .01045 |
| GRADIENT | 00135 | 00102 | 00165 | 00102 | 00136 | 00292 | 00292 | 00200 | 00188 | | |

(E2F087) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 15.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 679/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.199 | -4.855 | -29500 | -29530 | -29520 | -29480 | -29000 | -29000 | -29230 | -29630 | -32960 | -34210 |
| 1.196 | .082 | -29780 | -29840 | -29710 | -29860 | -29720 | -29720 | -30090 | -30230 | -37610 | -34830 |
| 1.202 | 2.679 | -29110 | -29300 | -29110 | -29210 | -29750 | -29750 | -30260 | -31000 | -39970 | -35700 |
| 1.197 | 5.253 | -30600 | -30530 | -30540 | -30560 | -31790 | -31790 | -31610 | -32010 | -40950 | -36680 |
| 1.196 | 7.191 | -30910 | -30950 | -30660 | -31090 | -30410 | -30410 | -31540 | -31590 | -42230 | -36410 |
| 1.198 | 8.218 | -30980 | -31070 | -30770 | -31200 | -31720 | -31720 | -31990 | -31890 | -42380 | -36340 |
| 1.198 | 10.353 | -30760 | -30670 | -30840 | -31140 | -31790 | -31790 | -32480 | -32300 | -43100 | -36770 |
| 1.195 | 12.408 | -30750 | -30850 | -31170 | -31120 | -31870 | -31870 | -32520 | -32920 | -43450 | -36770 |
| 1.186 | 15.444 | -33890 | -34210 | -34080 | -34120 | -34240 | -34240 | -35130 | -35350 | -42770 | -35750 |
| | GRADIENT | .00038 | .00018 | .00042 | .00021 | .00106 | .00106 | .00142 | .00174 | .00932 | .00188 |

RUN NO. 666/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.402 | -4.088 | -28270 | -28370 | -28410 | -28400 | -28660 | -28660 | -28980 | -29340 | -40860 | -42800 |
| 1.406 | .074 | -28310 | -28260 | -28190 | -28300 | -28610 | -28610 | -28800 | -29140 | -44210 | -43540 |
| 1.401 | 2.457 | -29190 | -28950 | -29090 | -29020 | -29460 | -29460 | -29970 | -30180 | -45720 | -44620 |
| 1.399 | 5.049 | -29940 | -29790 | -29770 | -29850 | -30180 | -30280 | -30730 | -31030 | -47750 | -44210 |
| 1.399 | 7.093 | -30730 | -30840 | -30830 | -30910 | -30990 | -30990 | -31280 | -31360 | -49230 | -45000 |
| 1.403 | 8.128 | -30780 | -30880 | -31030 | -31050 | -31150 | -31150 | -31530 | -31610 | -49340 | -45760 |
| 1.399 | 10.176 | -31510 | -31510 | -31590 | -31690 | -31580 | -31580 | -31740 | -32030 | -49380 | -45230 |
| 1.399 | 12.197 | -32190 | -32260 | -32230 | -32230 | -31710 | -31710 | -31830 | -32110 | -49930 | -44970 |
| 1.402 | 15.229 | -33140 | -33170 | -33180 | -33260 | -31630 | -31630 | -31880 | -32290 | -50400 | -45150 |
| 1.400 | GRADIENT | .00129 | .00078 | .00089 | .00084 | .00110 | .00110 | .00133 | .00112 | .00751 | .00270 |

OAI15 TABULATED FORCE DATA

(E2F088) (08 JUL 77)

AMES 118-1-11 OAI45A 01

DATE 10 MAR 80

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500
 ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 15.000 RUDDER = .000
 RN/L = 5.000

| RUN NO. 703/ 0 | | RN/L = 4.95 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|---------|---------------------------------|---------|
| MACH | BETA | CP225 | CP228 | CP231 | CP234 |
| .597 | -6.068 | -20840 | -20810 | -20810 | -20650 |
| .597 | -1.938 | -20460 | -19840 | -19890 | -23050 |
| .597 | -899 | -19410 | -18980 | -19150 | -22890 |
| .597 | .027 | -20400 | -20370 | -20350 | -22910 |
| .597 | .488 | -20490 | -20420 | -19730 | -22650 |
| .597 | 1.021 | -20440 | -20210 | -19920 | -23980 |
| .597 | 2.088 | -20090 | -20430 | -20020 | -23590 |
| .597 | 3.130 | -20620 | -20360 | -20550 | -23360 |
| .597 | 4.160 | -20720 | -20640 | -20690 | -24000 |
| .597 | 6.220 | -21100 | -20980 | -20860 | -23520 |
| .597 | GRADIENT | -20096 | -200174 | -200168 | -200168 |
| | | | | | |
| RUN NO. 698/ 0 | | RN/L = 4.93 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
| MACH | BETA | CP225 | CP228 | CP231 | CP234 |
| .798 | -6.115 | -21730 | -21950 | -21440 | -21590 |
| .798 | -1.977 | -20240 | -20410 | -20430 | -20320 |
| .798 | -939 | -20570 | -20460 | -20080 | -19730 |
| .800 | .116 | -19660 | -20270 | -20040 | -20650 |
| .798 | .614 | -21160 | -20080 | -20650 | -20970 |
| .798 | 1.142 | -20540 | -20780 | -20630 | -20990 |
| .798 | 2.182 | -21370 | -21240 | -21090 | -25280 |
| .797 | 3.225 | -21910 | -21420 | -21440 | -21260 |
| .799 | 4.265 | -21200 | -22070 | -21640 | -21880 |
| .799 | 6.333 | -22940 | -23300 | -22230 | -23090 |
| .795 | GRADIENT | -200242 | -200281 | -200254 | -200270 |

| RUN NO. 692/ 0 | | RN/L = 4.96 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|---------|---------------------------------|---------|
| MACH | BETA | CP225 | CP228 | CP231 | CP234 |
| .901 | -6.132 | -22350 | -22250 | -22300 | -22060 |
| .902 | -1.975 | -22230 | -21570 | -21830 | -21830 |
| .899 | .920 | -22560 | -22070 | -22380 | -22370 |
| .898 | .007 | -22870 | -22650 | -22740 | -23170 |
| .898 | .642 | -23400 | -22070 | -22760 | -22760 |
| .898 | 1.176 | -23610 | -23780 | -22070 | -23210 |
| .899 | 2.216 | -23790 | -23460 | -23680 | -23200 |
| .899 | 3.266 | -24400 | -24310 | -23880 | -23270 |
| .898 | 4.309 | -25550 | -25200 | -24310 | -23640 |
| .898 | 6.379 | -26190 | -26640 | -24820 | -23640 |
| .898 | GRADIENT | -200494 | -200563 | -200417 | -200410 |

| RUN NO. 692/ 0 | | RN/L = 4.96 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|---------|---------------------------------|---------|
| MACH | BETA | CP225 | CP228 | CP231 | CP234 |
| .901 | -6.132 | -22350 | -22250 | -22300 | -22060 |
| .902 | -1.975 | -22230 | -21570 | -21830 | -21830 |
| .899 | .920 | -22560 | -22070 | -22380 | -22370 |
| .898 | .007 | -22870 | -22650 | -22740 | -23170 |
| .898 | .642 | -23400 | -22070 | -22760 | -22760 |
| .898 | 1.176 | -23610 | -23780 | -22070 | -23210 |
| .899 | 2.216 | -23790 | -23460 | -23680 | -23200 |
| .899 | 3.266 | -24400 | -24310 | -23880 | -23270 |
| .898 | 4.309 | -25550 | -25200 | -24310 | -23640 |
| .898 | 6.379 | -26190 | -26640 | -24820 | -23640 |
| .898 | GRADIENT | -200494 | -200563 | -200417 | -200410 |

| RUN NO. 692/ 0 | | RN/L = 4.96 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|---------|---------------------------------|---------|
| MACH | BETA | CP225 | CP228 | CP231 | CP234 |
| .901 | -6.132 | -22350 | -22250 | -22300 | -22060 |
| .902 | -1.975 | -22230 | -21570 | -21830 | -21830 |
| .899 | .920 | -22560 | -22070 | -22380 | -22370 |
| .898 | .007 | -22870 | -22650 | -22740 | -23170 |
| .898 | .642 | -23400 | -22070 | -22760 | -22760 |
| .898 | 1.176 | -23610 | -23780 | -22070 | -23210 |
| .899 | 2.216 | -23790 | -23460 | -23680 | -23200 |
| .899 | 3.266 | -24400 | -24310 | -23880 | -23270 |
| .898 | 4.309 | -25550 | -25200 | -24310 | -23640 |
| .898 | 6.379 | -26190 | -26640 | -24820 | -23640 |
| .898 | GRADIENT | -200494 | -200563 | -200417 | -200410 |

| RUN NO. 692/ 0 | | RN/L = 4.96 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|---------|---------------------------------|---------|
| MACH | BETA | CP225 | CP228 | CP231 | CP234 |
| .901 | -6.132 | -22350 | -22250 | -22300 | -22060 |
| .902 | -1.975 | -22230 | -21570 | -21830 | -21830 |
| .899 | .920 | -22560 | -22070 | -22380 | -22370 |
| .898 | .007 | -22870 | -22650 | -22740 | -23170 |
| .898 | .642 | -23400 | -22070 | -22760 | -22760 |
| .898 | 1.176 | -23610 | -23780 | -22070 | -23210 |
| .899 | 2.216 | -23790 | -23460 | -23680 | -23200 |
| .899 | 3.266 | -24400 | -24310 | -23880 | -23270 |
| .898 | 4.309 | -25550 | -25200 | -24310 | -23640 |
| .898 | 6.379 | -26190 | -26640 | -24820 | -23640 |
| .898 | GRADIENT | -200494 | -200563 | -200417 | -200410 |

DATE 10 MAR 80

OAI145 TABULATED FORCE DATA

PAGE 1841

AMES 118-1-11 OAI145A 01

(E2F088) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDELAP = .000
 SPDBRK = 15.000 RUDDER = .000
 RN/L = 5.000

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP249 | CP252 |
|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------|
| .952 | -6.112 | -25130 | -25370 | -25330 | -24920 | -33100 | -33100 | -33910 | -35450 | -42440 | .09360 |
| .951 | -1.964 | -23900 | -23930 | -23340 | -24060 | -32320 | -32320 | -33940 | -34660 | -32840 | .19530 |
| .950 | -1.919 | -24480 | -24800 | -24700 | -23710 | -32740 | -32740 | -33880 | -34070 | -30430 | .22190 |
| .952 | .025 | -25160 | -25480 | -25080 | -24750 | -33160 | -33160 | -34940 | -35370 | -27950 | .24590 |
| .950 | .538 | -24650 | -24840 | -24840 | -25060 | -33550 | -33550 | -34800 | -35320 | -26680 | .25780 |
| .952 | 1.067 | -23820 | -24870 | -24890 | -24680 | -32740 | -32740 | -33890 | -34660 | -25850 | .27380 |
| .950 | 2.140 | -24830 | -24660 | -24960 | -24500 | -33300 | -33300 | -33530 | -34940 | -23400 | .29860 |
| .949 | 3.190 | -25410 | -25620 | -25720 | -25700 | -34290 | -34290 | -35420 | -36470 | -20420 | .32190 |
| .950 | 4.226 | -26930 | -26460 | -26530 | -25610 | -35070 | -35070 | -36300 | -37240 | -18290 | .34980 |
| .948 | 6.307 | -28490 | -27930 | -28270 | -28490 | -36640 | -36640 | -37480 | -39050 | -13350 | .40550 |
| | GRADIENT | -0.00370 | -0.00302 | -0.00397 | -0.00281 | -0.00392 | -0.00392 | -0.00296 | -0.00416 | -0.02356 | .02481 |

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP249 | CP252 |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|---------|----------|--------|
| 1.200 | -6.191 | -31000 | -31080 | -30840 | -31050 | -31280 | -31280 | -31600 | -31570 | -54940 | .26340 |
| 1.201 | -2.054 | -30540 | -30570 | -30400 | -30460 | -30700 | -30700 | -30630 | -31110 | -45810 | .31320 |
| 1.198 | -1.016 | -30340 | -30460 | -30410 | -30600 | -30640 | -30640 | -31020 | -31410 | -43540 | .33370 |
| 1.199 | .110 | -30140 | -30080 | -30050 | -30220 | -31240 | -31240 | -31250 | -31360 | -41410 | .35930 |
| 1.199 | .689 | -30420 | -30450 | -30290 | -30350 | -31090 | -31090 | -31520 | -31930 | -40160 | .37570 |
| 1.199 | 1.167 | -30540 | -30700 | -30480 | -30480 | -31070 | -31070 | -31750 | -32210 | -39290 | .38860 |
| 1.200 | 2.197 | -30730 | -30540 | -30400 | -30640 | -30990 | -30990 | -31640 | -32120 | -37580 | .41570 |
| 1.199 | 3.241 | -30360 | -30610 | -30460 | -30710 | -30950 | -30950 | -31730 | -32170 | -35250 | .44130 |
| 1.199 | 4.285 | -30770 | -30660 | -30650 | -30800 | -31230 | -31230 | -31880 | -32220 | -33280 | .46620 |
| 1.197 | 6.357 | -31280 | -31780 | -31720 | -31520 | -31730 | -31730 | -31990 | -32550 | -30000 | .52080 |
| | GRADIENT | -0.00045 | -0.00035 | -0.00041 | -0.00058 | -0.00065 | -0.00065 | -0.00185 | -0.0187 | -0.01956 | .02468 |

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP249 | CP252 |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------|
| 1.401 | -6.115 | -29610 | -29750 | -29610 | -29650 | -30010 | -30010 | -30250 | -30530 | -57810 | .35500 |
| 1.405 | -1.971 | -29650 | -29810 | -29830 | -29890 | -30240 | -30240 | -30200 | -30660 | -50070 | .42200 |
| 1.404 | -1.913 | -29360 | -29320 | -29420 | -29390 | -29850 | -29850 | -30130 | -30480 | -48870 | .43390 |
| 1.403 | .148 | -29390 | -29550 | -29790 | -29600 | -29940 | -29940 | -30200 | -30270 | -48030 | .44510 |
| 1.403 | .624 | -29510 | -29510 | -29460 | -29360 | -29890 | -29890 | -30200 | -30500 | -47580 | .44780 |
| 1.403 | 1.158 | -29500 | -29520 | -29460 | -29650 | -29950 | -29950 | -30030 | -30340 | -46990 | .45070 |
| 1.402 | 2.218 | -29560 | -29550 | -29510 | -29670 | -29780 | -29780 | -30100 | -30400 | -46730 | .46380 |
| 1.402 | 3.272 | -29420 | -29470 | -29460 | -29500 | -29570 | -29570 | -30040 | -30260 | -44960 | .48240 |
| 1.402 | 4.321 | -29680 | -29620 | -29420 | -29620 | -29830 | -29830 | -30050 | -30510 | -41410 | .49810 |
| 1.399 | 6.405 | -29030 | -29040 | -28990 | -29120 | -28940 | -28940 | -29340 | -29510 | -34600 | .54740 |
| | GRADIENT | -0.00013 | -0.00008 | -0.00047 | -0.00014 | -0.00066 | -0.00066 | -0.00029 | -0.00027 | -0.01201 | .01177 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1843

(EF089) (06 MAR 80)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = 15.000
 RN/L = 5.000

RUN NO. 688/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP240 | CP12 | CP13 |
|------|----------|---------|--------|--------|
| .900 | -14.955 | -.28690 | .18110 | .16470 |
| .899 | -10.736 | -.29050 | .17930 | .15880 |
| .901 | -4.961 | -.29190 | .17760 | .15800 |
| .900 | -2.442 | -.28730 | .17840 | .15830 |
| .899 | -.116 | -.28520 | .17890 | .15660 |
| .902 | 2.513 | -.28140 | .18030 | .16130 |
| .900 | 5.005 | -.28800 | .17850 | .15720 |
| .899 | 10.019 | -.28190 | .17850 | .15930 |
| .901 | 14.996 | -.28290 | .18150 | .16000 |
| .900 | 18.107 | -.28190 | .18040 | .15900 |
| .899 | 22.836 | -.28630 | .17850 | .15870 |
| | GRADIENT | .00136 | .00035 | .00040 |

RUN NO. 685/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .950 | -14.965 | -.36370 | .21930 | .20090 |
| .951 | -10.762 | -.35590 | .21980 | .20110 |
| .952 | -4.947 | -.35550 | .22050 | .20050 |
| .952 | -2.451 | -.35310 | .21990 | .20060 |
| .951 | -.116 | -.35660 | .21790 | .19870 |
| .951 | 2.488 | -.35730 | .21740 | .19850 |
| .950 | 5.024 | -.35720 | .21760 | .19820 |
| .950 | 10.027 | -.36240 | .21720 | .19720 |
| .951 | 15.005 | -.36410 | .21760 | .19790 |
| .949 | 18.107 | -.36480 | .21750 | .19640 |
| .950 | 22.836 | -.36480 | .21960 | .19880 |
| | GRADIENT | -.00036 | -.00046 | -.00032 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1844

(E2F089) (05 MAR 80)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = .000
ELEVON = .000
BOFLAP = .000
RN/L = 5.00
BETA = .000
AILRON = .000
SPOBRK = 15.000

RUN NO. 673/ 0 RN/L = 5.08 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP240 | CP12 | CP13 |
|-------|----------|--------|---------|--------|
| 1.200 | -14.965 | -30590 | .38540 | .35120 |
| 1.200 | -10.771 | -30260 | .38470 | .35010 |
| 1.201 | -4.947 | -29620 | .38550 | .35120 |
| 1.201 | -2.426 | -29050 | .38680 | .35300 |
| 1.200 | -.141 | -29200 | .38500 | .35140 |
| 1.200 | 2.531 | -28940 | .38560 | .35220 |
| 1.200 | 5.005 | -29390 | .38520 | .35110 |
| 1.199 | 9.987 | -30010 | .38460 | .35050 |
| 1.200 | 15.014 | -30180 | .38500 | .35110 |
| 1.199 | 18.116 | -30490 | .38450 | .34990 |
| 1.197 | 22.846 | -30780 | .38270 | .34920 |
| | GRADIENT | .00077 | -.00006 | .00006 |

RUN NO. 670/ 0 RN/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP240 | CP12 | CP13 |
|-------|----------|--------|---------|---------|
| 1.404 | -14.970 | -29800 | .44560 | .43910 |
| 1.404 | -10.736 | -29290 | .44380 | .43690 |
| 1.404 | -4.954 | -28840 | .44370 | .43550 |
| 1.403 | -2.434 | -28520 | .44290 | .43760 |
| 1.403 | -.141 | -28730 | .44170 | .43360 |
| 1.403 | 2.522 | -28690 | .44310 | .43580 |
| 1.403 | 5.014 | -28730 | .44400 | .43660 |
| 1.404 | 10.003 | -29140 | .44400 | .43790 |
| 1.403 | 15.031 | -29580 | .44340 | .43840 |
| 1.402 | 18.116 | -30080 | .44280 | .43380 |
| 1.402 | 22.818 | -30020 | .44620 | .43690 |
| | GRADIENT | .00010 | -.00012 | -.00011 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1845

AMES 118-1-11 OAI45A 01

(E2FY89) (19 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

ALPHA =
 ELEVON =
 BDFLAP =
 RN/L =

BETA = .000
 AILRON = .000
 SPOBRK = 15.000

RUN NO. 0 / 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .597 | -14.970 | -20520 | -20810 | -20310 | -20380 | -21240 | -21240 | -21270 | -21550 | .08310 | .07290 |
| .598 | -10.691 | -20440 | -20250 | -20220 | -19890 | -21020 | -21020 | -21310 | -21280 | .07760 | .06960 |
| .597 | -4.961 | -20320 | -20210 | -20280 | -20040 | -21000 | -21000 | -21350 | -21610 | .07850 | .06550 |
| .597 | -2.418 | -19640 | -19780 | -19880 | -19610 | -20110 | -20110 | -20730 | -20900 | .08150 | .07170 |
| .597 | -1.123 | -19970 | -19710 | -19970 | -20210 | -20560 | -20560 | -20790 | -20790 | .07800 | .06650 |
| .597 | 2.505 | -19790 | -19840 | -19810 | -19910 | -20380 | -20380 | -20690 | -20520 | .08030 | .06960 |
| .598 | 5.024 | -20100 | -19980 | -19980 | -19740 | -20610 | -20610 | -20700 | -21080 | .07980 | .06790 |
| .597 | 10.027 | -20710 | -20680 | -20680 | -20380 | -21250 | -21250 | -21280 | -21370 | .07810 | .06440 |
| .597 | 15.031 | -20950 | -20900 | -20920 | -20660 | -21530 | -21530 | -21550 | -21360 | .07970 | .06670 |
| .596 | 18.143 | -21760 | -21570 | -21570 | -21590 | -21700 | -21700 | -21670 | -21890 | .08000 | .06660 |
| .597 | 22.836 | -22600 | -22200 | -22130 | -22410 | -22270 | -22270 | -22350 | -22180 | .07970 | .06630 |
| | GRADIENT | .00052 | .00048 | .00054 | .00007 | .00058 | .00058 | .00078 | .00137 | .00009 | .00030 |

AMES 118-1-11 OAI45A 01

(E2F090) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

ALPHA =
 ELEVON =
 BDFLAP =
 RN/L =

BETA = 5.000
 AILRON = .000
 SPOBRK = 15.000

RUN NO. 702 / 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| .598 | -14.960 | -21050 | -20720 | -21030 | -20810 | -23820 | -23820 | -25080 | -26360 | .15080 | .13000 |
| .598 | -10.754 | -20170 | -20270 | -20120 | -20100 | -23210 | -23210 | -24250 | -25870 | .15180 | .13220 |
| .597 | -4.939 | -19950 | -20140 | -20160 | -20380 | -23110 | -23110 | -24150 | -25860 | .15130 | .13140 |
| .597 | -2.426 | -20010 | -20090 | -19820 | -20090 | -22890 | -22890 | -24310 | -25590 | .15180 | .13280 |
| .597 | -0.966 | -20040 | -19940 | -19900 | -20130 | -23140 | -23140 | -24280 | -25370 | .15170 | .13000 |
| .597 | 2.496 | -19840 | -20150 | -20110 | -20220 | -22690 | -22690 | -24550 | -25450 | .15130 | .13320 |
| .597 | 5.005 | -20300 | -20290 | -20060 | -20030 | -22960 | -22960 | -24960 | -25450 | .14990 | .13240 |
| .597 | 10.019 | -20100 | -20100 | -20060 | -20530 | -23140 | -23140 | -24190 | -25850 | .14940 | .13160 |
| .597 | 15.031 | -20800 | -21000 | -21070 | -21350 | -23250 | -23250 | -24490 | -25910 | .15120 | .13100 |
| .596 | 18.143 | -21290 | -21290 | -21340 | -21390 | -23690 | -23690 | -24680 | -25960 | .15130 | .13010 |
| .597 | 22.836 | -21420 | -21660 | -21660 | -21490 | -23650 | -23650 | -24990 | -26190 | .14990 | .13260 |
| | GRADIENT | .00012 | .00004 | .00003 | .00018 | .00042 | .00042 | .00048 | .00058 | -.00000 | .00011 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(E2F090) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = .000
 RN/L = 5.000

RUN NO. 696/ 0 RN/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .799 | -14.960 | -21690 | -21540 | -21030 | -21250 | -25640 | -25640 | -26770 | -28000 | .19670 | .16900 |
| .799 | -10.736 | -21620 | -21530 | -21620 | -21030 | -25640 | -25640 | -26590 | -27460 | .19330 | .16850 |
| .800 | -2.442 | -19940 | -20540 | -20430 | -20050 | -24730 | -24730 | -25940 | -26930 | .19520 | .16990 |
| .799 | -1.316 | -20900 | -20540 | -20830 | -20980 | -24700 | -24700 | -26430 | -27530 | .19760 | .17080 |
| .799 | .123 | -20580 | -20290 | -20470 | -20160 | -24950 | -24950 | -25730 | -27390 | .19460 | .16810 |
| .800 | 2.496 | -20770 | -20270 | -20600 | -20500 | -24850 | -24850 | -25230 | -27670 | .19640 | .16920 |
| .799 | 5.014 | -20860 | -21080 | -20800 | -20330 | -25170 | -25170 | -26010 | -27350 | .19500 | .16540 |
| .799 | 10.011 | -21200 | -20650 | -20880 | -21300 | -24860 | -24860 | -26090 | -27280 | .19560 | .16960 |
| .799 | 15.005 | -21250 | -21530 | -21820 | -21700 | -25400 | -25400 | -26390 | -28020 | .19470 | .16840 |
| .799 | 18.125 | -22110 | -21680 | -22080 | -22210 | -25150 | -25150 | -26390 | -28430 | .19390 | .17000 |
| .800 | 22.818 | -22440 | -22780 | -23000 | -22380 | -25600 | -25600 | -26680 | -27360 | .19670 | .16830 |
| | GRADIENT | -00117 | -00029 | -00008 | -00030 | -00031 | -00031 | -00189 | -00121 | .00007 | -00024 |

RJN NO. 690/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .900 | -14.965 | -24550 | -24250 | -23940 | -24620 | -33150 | -33150 | -33860 | -34140 | .24150 | .21260 |
| .900 | -10.754 | -23690 | -23670 | -23620 | -23590 | -32660 | -32660 | -34300 | -34850 | .24220 | .21310 |
| .902 | -4.924 | -22490 | -23080 | -22750 | -22610 | -31430 | -31430 | -33510 | -33820 | .24450 | .21570 |
| .900 | -2.451 | -23250 | -22960 | -23370 | -22420 | -32180 | -32180 | -33380 | -34310 | .24200 | .21230 |
| .900 | .103 | -22910 | -23010 | -22990 | -22960 | -32250 | -32250 | -32850 | -34520 | .24290 | .21140 |
| .839 | 2.496 | -22390 | -22250 | -22440 | -22960 | -32130 | -32130 | -33370 | -34560 | .24310 | .21250 |
| .900 | 5.014 | -22940 | -22960 | -22700 | -22750 | -31840 | -31840 | -33250 | -34390 | .24070 | .21220 |
| .899 | 10.011 | -24110 | -24360 | -23850 | -23970 | -32950 | -32950 | -34810 | -35000 | .23730 | .20820 |
| .899 | 15.014 | -24740 | -24130 | -24150 | -24150 | -32880 | -32880 | -34780 | -34570 | .23760 | .20820 |
| .900 | 18.134 | -24630 | -24090 | -24270 | -24730 | -32690 | -32690 | -34030 | -34480 | .23970 | .20980 |
| .900 | 22.846 | -24240 | -24560 | -25240 | -24550 | -32820 | -32820 | -33840 | -34750 | .23980 | .21060 |
| | GRADIENT | .00027 | .00100 | .00014 | -00064 | -00088 | -00088 | .00037 | -00098 | -00013 | -00042 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(E2F090) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDRK = 15.000
 RN/L = 5.000

RUN NO. 684/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|---------|--------|--------|---------|---------|--------|--------|----------|----------|
| .951 | -14.970 | -26290 | -26870 | -26660 | -26770 | -34360 | -34360 | -36230 | -36630 | .27710 | .24620 |
| .951 | -10.745 | -25930 | -25760 | -25640 | -26000 | -33930 | -33930 | -35250 | -35800 | .27770 | .24560 |
| .951 | -4.932 | -25240 | -25420 | -25170 | -24520 | -33700 | -33700 | -34520 | -35610 | .27650 | .24480 |
| .950 | -2.451 | -25050 | -24500 | -25260 | -24950 | -33540 | -33540 | -35430 | -35510 | .27730 | .24410 |
| .951 | -0.056 | -24790 | -25280 | -24710 | -24540 | -33460 | -33460 | -34910 | -35500 | .27670 | .24460 |
| .951 | 2.496 | -24940 | -25270 | -25310 | -24470 | -33740 | -33740 | -34570 | -35270 | .27570 | .24380 |
| .952 | 5.005 | -24850 | -25050 | -23850 | -24530 | -33410 | -33410 | -34540 | -34870 | .27870 | .24650 |
| .951 | 10.011 | -25330 | -25450 | -25400 | -25350 | -33660 | -33660 | -34980 | -35800 | .27730 | .24580 |
| .949 | 15.005 | -26700 | -26480 | -26160 | -25900 | -34430 | -34430 | -35600 | -36600 | .27630 | .24350 |
| .950 | 18.125 | -27360 | -26490 | -26820 | -26170 | -34740 | -34740 | -35900 | -36610 | .27460 | .24250 |
| .950 | 22.836 | -27160 | -27190 | -26770 | -26960 | -34470 | -34470 | -35000 | -36230 | .27740 | .24570 |
| | GRADIENT | .01047 | -0.0013 | .00004 | .00023 | -0.0002 | -0.0002 | .00015 | .00042 | -0.00012 | -0.00010 |

RUN NO. 676/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|----------|----------|--------|--------|----------|----------|----------|----------|
| 1.198 | -14.970 | -31750 | -31680 | -31610 | -31750 | -32070 | -32070 | -32310 | -32780 | .41640 | .36160 |
| 1.198 | -10.771 | -31540 | -31740 | -31400 | -31210 | -31800 | -31800 | -32560 | -33050 | .41460 | .35900 |
| 1.200 | -4.947 | -30600 | -30430 | -30260 | -30320 | -31580 | -31580 | -31510 | -31970 | .41800 | .36040 |
| 1.201 | -2.442 | -30150 | -30140 | -30110 | -30110 | -30810 | -30810 | -31310 | -31340 | .41900 | .36220 |
| 1.199 | -1.132 | -29950 | -30110 | -30110 | -30180 | -30840 | -30840 | -31070 | -31740 | .41710 | .36100 |
| 1.200 | 2.505 | -30680 | -30170 | -30030 | -30190 | -31260 | -31260 | -31260 | -32620 | .41720 | .36140 |
| 1.200 | 4.996 | -30150 | -30290 | -30520 | -30470 | -30900 | -30900 | -31730 | -31580 | .41780 | .36150 |
| 1.199 | 10.019 | -31220 | -31200 | -31410 | -31490 | -31720 | -31720 | -32010 | -33120 | .41730 | .36100 |
| 1.200 | 15.022 | -31800 | -31580 | -31670 | -31100 | -32000 | -32000 | -32480 | -32480 | .41730 | .36200 |
| 1.199 | 18.125 | -32150 | -31950 | -32150 | -31960 | -32780 | -32780 | -33300 | -32770 | .41540 | .35970 |
| 1.200 | 22.846 | -32630 | -32820 | -32210 | -32210 | -32740 | -32740 | -32930 | -33440 | .41760 | .36070 |
| | GRADIENT | .00014 | .00010 | -0.00018 | -0.00015 | .00036 | .00036 | -0.00016 | -0.00020 | -0.00009 | -0.00006 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1848

(E2F080) (06 JUL 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

ALPHA =
ELEVON =
BDFLAP =
RN/L =

PARAMETRIC DATA

5.000 BETA = .000
.000 AILRON = .000
.000 SPD8RK = 15.000
5.000

RUN NO. 669/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 1.403 | -14.976 | -31110 | -30870 | -31010 | -30930 | -31230 | -31230 | -31490 | -31770 | .48190 | .44570 |
| 1.402 | -10.727 | -30630 | -30520 | -30570 | -30570 | -30890 | -30890 | -31090 | -31360 | .47830 | .44400 |
| 1.401 | -4.924 | -30080 | -30010 | -30120 | -29960 | -30260 | -30260 | -30780 | -30730 | .47940 | .44480 |
| 1.403 | -2.451 | -29580 | -29730 | -29740 | -29840 | -30020 | -30020 | -30470 | -30520 | .48140 | .44500 |
| 1.403 | -1.141 | -29600 | -29660 | -29400 | -29580 | -29780 | -29780 | -30060 | -30420 | .48120 | .44530 |
| 1.403 | 2.488 | -29730 | -29730 | -29730 | -29820 | -30030 | -30030 | -30280 | -30570 | .48040 | .44460 |
| 1.403 | 5.014 | -29710 | -29830 | -29820 | -29850 | -30080 | -30080 | -30330 | -30690 | .48060 | .44600 |
| 1.403 | 10.011 | -30320 | -30270 | -30390 | -30450 | -30590 | -30590 | -30760 | -31010 | .47970 | .44610 |
| 1.404 | 15.005 | -30940 | -30730 | -30800 | -30820 | -31080 | -31080 | -31180 | -31490 | .47980 | .44510 |
| 1.403 | 18.143 | -31070 | -31290 | -31130 | -31200 | -31210 | -31210 | -31500 | -31930 | .48110 | .44590 |
| 1.403 | 22.836 | -31590 | -31570 | -31560 | -31600 | -31580 | -31580 | -32000 | -32270 | .47930 | .44560 |
| 1.403 | GRADIENT | .00041 | .00037 | .00060 | .00027 | .00037 | .00037 | .00077 | .00023 | .00011 | -.00001 |

AMES 118-1-11 0A145A 01

(E2F091) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

ALPHA =
ELEVON =
BDFLAP =
RN/L =

PARAMETRIC DATA

10.000 BETA = .000
.000 AILRON = .000
.000 SPD8RK = 15.000
5.000

RUN NO. 701/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .598 | -14.993 | -28290 | .18480 | .19390 |
| .598 | -10.745 | -25780 | .18670 | .19420 |
| .597 | -4.939 | -26050 | .18320 | .15260 |
| .597 | -2.418 | -26460 | .18100 | .14850 |
| .598 | -1.141 | -25970 | .18530 | .15180 |
| .598 | 2.522 | -26210 | .18060 | .15090 |
| .597 | 5.024 | -25890 | .18020 | .15290 |
| .597 | 10.011 | -25930 | .18470 | .15350 |
| .597 | 15.014 | -26290 | .18070 | .15130 |
| .598 | 18.125 | -25310 | .18680 | .15960 |
| .597 | 22.836 | -26930 | .18280 | .14990 |
| .597 | GRADIENT | -.00001 | -.00016 | -.00009 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1849

(E2F091) (05 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = .000
ELEVON = .000
BDFLAP = .000
RN/L = 5.000
BETA = .000
AILRON = .000
SPDRK = 15.000

RUN NO. 695/ 0 RN/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .798 | -14.960 | -.30110 | .23030 | .19420 |
| .799 | -10.754 | -.29530 | .23190 | .19610 |
| .799 | -4.961 | -.29180 | .23510 | .19620 |
| .799 | -2.434 | -.29350 | .22960 | .19550 |
| .799 | -.123 | -.29210 | .23250 | .19550 |
| .800 | 2.513 | -.28930 | .23170 | .19610 |
| .798 | 5.014 | -.29360 | .22900 | .19350 |
| .800 | 10.067 | -.30040 | .22910 | .19090 |
| .800 | 14.996 | -.29470 | .23030 | .19570 |
| .799 | 18.116 | -.29060 | .23250 | .19720 |
| .801 | 22.827 | -.29540 | .23560 | .19670 |
| | GRADIENT | .00036 | -.00030 | -.00001 |

RUN NO. 687/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .901 | -14.965 | -.33510 | .28550 | .24400 |
| .900 | -10.754 | -.34580 | .28050 | .23630 |
| .899 | -4.961 | -.33630 | .27720 | .23830 |
| .901 | -2.434 | -.33560 | .28100 | .23990 |
| .899 | -.089 | -.34370 | .27260 | .23440 |
| .899 | 2.522 | -.33820 | .27760 | .23640 |
| .899 | 4.996 | -.33660 | .27730 | .23740 |
| .900 | 10.003 | -.34000 | .27790 | .23860 |
| .900 | 15.005 | -.34090 | .27930 | .23790 |
| .900 | 18.134 | -.34200 | .27750 | .23810 |
| .900 | 22.808 | -.34190 | .27770 | .23850 |
| | GRADIENT | -.00012 | -.00012 | -.00021 |

OAI45 TABULATED FORCE DATA

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT.

LREF = 474.8100 INCHES

BREF = 936.6800 INCHES

SCALE = .0500

XMRP = 1076.6800 IN. XO

YMRP = .0000 IN. YO

ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 10.000

ELEVON = .000

BOFLAP = .000

RN/L = 5.000

BETA = .000

AILRON = .000

SPDBRK = 15.000

| RUN NO. 686/ 0 | | RN/L = 4.95 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|--|-------------|--|---------------------------------|--|
| MACH | | RUDDER | | CP12 | |
| .948 | | -14.976 | | .30770 | |
| .951 | | -10.754 | | .30980 | |
| .953 | | -4.961 | | .31180 | |
| .953 | | -2.434 | | .31350 | |
| .949 | | -1.123 | | .30890 | |
| .951 | | 2.505 | | .30870 | |
| .951 | | 5.024 | | .31090 | |
| .950 | | 10.011 | | .30630 | |
| .951 | | 15.022 | | .31000 | |
| .950 | | 18.116 | | .31010 | |
| .952 | | 22.827 | | .31180 | |
| | | GRADIENT | | -.00055 | |

| RUN NO. 674/ 0 | | RN/L = 4.97 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|--|-------------|--|---------------------------------|--|
| MACH | | RUDDER | | CP12 | |
| 1.199 | | -14.960 | | .43850 | |
| 1.199 | | -10.727 | | .43870 | |
| 1.200 | | -4.947 | | .43770 | |
| 1.200 | | -2.459 | | .43930 | |
| 1.201 | | -1.110 | | .43910 | |
| 1.199 | | 2.488 | | .43800 | |
| 1.199 | | 5.024 | | .43770 | |
| 1.199 | | 10.011 | | .43730 | |
| 1.199 | | 15.005 | | .43650 | |
| 1.199 | | 18.116 | | .43720 | |
| 1.199 | | 22.818 | | .43520 | |
| | | GRADIENT | | .00077 | |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(E2F091) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDRK = 15.000
 RN/L = 5.000

RUN NO. 671/ 0 RN/L = 4.91 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP240 | CP12 | CP13 |
|-------|----------|---------|--------|--------|
| 1.395 | -14.965 | -.32710 | .49570 | .44880 |
| 1.396 | -10.736 | -.32270 | .49500 | .44900 |
| 1.398 | -4.932 | -.31660 | .49760 | .45200 |
| 1.399 | -2.434 | -.31650 | .49620 | .45050 |
| 1.400 | -.123 | -.31270 | .49840 | .45370 |
| 1.401 | 2.496 | -.31450 | .49710 | .45230 |
| 1.401 | 5.005 | -.31620 | .49710 | .45230 |
| 1.401 | 10.035 | -.31950 | .49610 | .45180 |
| 1.402 | 14.996 | -.32190 | .49730 | .45300 |
| 1.402 | 18.125 | -.32420 | .49550 | .45200 |
| 1.403 | 22.808 | -.32840 | .49400 | .45120 |
| | GRADIENT | .00040 | .00002 | .00016 |

AMES 118-1-11 OAI45A 01

(E2FY91) (19 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1073.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDRK = 15.000
 RN/L = 5.000

RUN NO. 0/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .598 | -14.993 | -.20770 | -.20770 | -.20340 | -.20800 | -.26290 | -.26290 | -.28330 | -.30940 | .18480 | .15360 |
| .598 | -10.745 | -.19830 | -.20210 | -.20590 | -.20400 | -.25780 | -.25780 | -.28380 | -.31180 | .18670 | .15620 |
| .597 | -4.939 | -.20320 | -.19580 | -.20050 | -.20460 | -.26050 | -.26050 | -.28900 | -.31660 | .18320 | .15260 |
| .597 | -2.418 | -.20760 | -.19880 | -.20520 | -.20120 | -.26460 | -.26460 | -.28860 | -.32020 | .18100 | .14860 |
| .598 | -.141 | -.19500 | -.19660 | -.19930 | -.20120 | -.25970 | -.25970 | -.28270 | -.30990 | .18530 | .15180 |
| .598 | 2.522 | -.20270 | -.19600 | -.19840 | -.20550 | -.26210 | -.26210 | -.28940 | -.31520 | .18060 | .15090 |
| .597 | 5.024 | -.20910 | -.20650 | -.20580 | -.20460 | -.25890 | -.25890 | -.28360 | -.31800 | .18020 | .15290 |
| .597 | 10.011 | -.20780 | -.20370 | -.20320 | -.20750 | -.25930 | -.25930 | -.28220 | -.31590 | .18470 | .15350 |
| .597 | 15.014 | -.20740 | -.20380 | -.20720 | -.20880 | -.26290 | -.26290 | -.29430 | -.31590 | .18070 | .15130 |
| .598 | 18.125 | -.20990 | -.20940 | -.21410 | -.20890 | -.25310 | -.25310 | -.27780 | -.31480 | .18680 | .15960 |
| .597 | 22.836 | -.21890 | -.21630 | -.21510 | -.21770 | -.26930 | -.26930 | -.29040 | -.31730 | .18280 | .14990 |
| | GRADIENT | .00053 | -.00001 | .00050 | -.00012 | -.00001 | -.00001 | .00016 | .00055 | -.00016 | -.00009 |

OAI45 TABULATED FORCE DATA

AMES 118-1-11 OAI45A 01

(E2F092) (06 MAR 80)

DATE 10 MAR 80

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 15.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BOFLAP = .000 SPDBRK = 15.000
 RN/L = 5.000

RUN NO. 675/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP240 | CP12 | CP13 |
|-------|----------|--------|--------|--------|
| 1.199 | -14.976 | -33870 | .44130 | .36460 |
| 1.198 | -10.736 | -33550 | .44060 | .36440 |
| 1.200 | -4.954 | -33250 | .44240 | .36620 |
| 1.201 | -2.451 | -33000 | .44160 | .36690 |
| 1.201 | -1.132 | -32980 | .44290 | .36750 |
| 1.200 | 2.505 | -32930 | .44230 | .36790 |
| 1.200 | 4.996 | -33110 | .44230 | .36750 |
| 1.200 | 10.019 | -33230 | .44120 | .36870 |
| 1.199 | 15.022 | -33690 | .43980 | .36690 |
| 1.200 | 18.116 | -33810 | .44070 | .36790 |
| 1.200 | 22.818 | -33950 | .43980 | .36840 |
| | GRADIENT | .00014 | .00002 | .00014 |

RUN NO. 672/ 0 RN/L = 4.90 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP240 | CP12 | CP13 |
|-------|----------|--------|--------|--------|
| 1.392 | -14.993 | -32120 | .50420 | .45190 |
| 1.394 | -10.745 | -31650 | .50550 | .45350 |
| 1.393 | -4.954 | -31630 | .50240 | .45150 |
| 1.393 | -2.426 | -31440 | .50380 | .45170 |
| 1.393 | -.036 | -31400 | .50290 | .45240 |
| 1.394 | 2.513 | -31480 | .50340 | .45170 |
| 1.393 | 5.014 | -31490 | .50450 | .45280 |
| 1.393 | 10.003 | -31820 | .50130 | .45190 |
| 1.393 | 14.976 | -31710 | .50390 | .45370 |
| 1.393 | 18.107 | -31860 | .50270 | .45240 |
| 1.393 | 22.836 | -31990 | .50270 | .45360 |
| | GRADIENT | .00020 | .00009 | .00005 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

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AMES 118-1-11 0A145A 01

(EEF093) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8100 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0500

ALPHA =
 AILRON =
 SPDBRK =
 RN/L =

ELEVON = .000
 BOFLAP = .000
 RUDDER = -5.000

PARAMETRIC DATA

RUN NO. 704/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .597 | -6.045 | -21140 | -20880 | -20970 | -20800 | -23350 | -23350 | -24710 | -25820 | .29570 | -.01250 |
| .597 | -1.935 | -19810 | -19910 | -19760 | -19860 | -22900 | -22900 | -24420 | -25370 | .20200 | .08620 |
| .597 | -.899 | -20190 | -19740 | -20260 | -19930 | -23010 | -23010 | -24120 | -25930 | .17600 | .10980 |
| .598 | .029 | -19910 | -20010 | -19750 | -19560 | -22980 | -22980 | -24430 | -25800 | .15310 | .13320 |
| .597 | .551 | -20350 | -20180 | -20180 | -20180 | -22950 | -22950 | -24640 | -25800 | .14180 | .14620 |
| .597 | 1.038 | -20350 | -20370 | -19800 | -19940 | -23030 | -23030 | -24430 | -26050 | .12660 | .15690 |
| .597 | 2.105 | -20210 | -20300 | -20280 | -20190 | -23560 | -23560 | -24730 | -26340 | .10280 | .18260 |
| .598 | 3.141 | -20320 | -19990 | -20300 | -20800 | -23260 | -23260 | -24510 | -25900 | .07960 | .20890 |
| .598 | 4.169 | -20910 | -20950 | -21240 | -20980 | -23150 | -23150 | -24400 | -26270 | .05410 | .23330 |
| .598 | 6.225 | -22070 | -21670 | -21430 | -21570 | -23920 | -23920 | -25460 | -26810 | .00450 | .28120 |
| | GRADIENT | -.00133 | -.00136 | -.00178 | -.00201 | -.00067 | -.00067 | -.00032 | -.00113 | -.02413 | .02419 |

RUN NO. 697/ 0 RN/L = 4.92 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| .799 | -6.086 | -21270 | -21310 | -21350 | -21520 | -24560 | -24560 | -25660 | -27160 | .34110 | .01870 |
| .797 | -1.945 | -20640 | -20200 | -20580 | -20200 | -24670 | -24670 | -26550 | -27910 | .24340 | .11880 |
| .799 | -.908 | -20490 | -20170 | -20640 | -20360 | -24880 | -24880 | -25410 | -26910 | .22010 | .14590 |
| .800 | .165 | -20300 | -20130 | -20730 | -20600 | -24770 | -24770 | -25960 | -27210 | .19200 | .17110 |
| .798 | .657 | -20720 | -21240 | -21100 | -21030 | -25240 | -25240 | -26610 | -27750 | .18410 | .18290 |
| .798 | 1.178 | -21630 | -20930 | -20980 | -21840 | -25580 | -25580 | -26990 | -28350 | .16830 | .19630 |
| .797 | 2.219 | -21890 | -21510 | -21930 | -21830 | -25910 | -25910 | -27240 | -28460 | .14260 | .22180 |
| .797 | 3.261 | -22220 | -21870 | -22180 | -22140 | -26670 | -26670 | -27390 | -28510 | .11820 | .24460 |
| .797 | 4.299 | -22380 | -22210 | -22310 | -21890 | -26080 | -26080 | -27280 | -28490 | .09570 | .27450 |
| .796 | 6.367 | -23110 | -23480 | -23080 | -23550 | -26430 | -26430 | -27470 | -29650 | .04190 | .32760 |
| | GRADIENT | -.00359 | -.00364 | -.00326 | -.00339 | -.00309 | -.00309 | -.00254 | -.00214 | -.02395 | .02456 |

RUN NO. 691/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| .900 | -6.130 | -22790 | -22620 | -22620 | -22260 | -29330 | -29330 | -29940 | -30680 | .38890 | .05540 |
| .900 | -1.964 | -22000 | -22330 | -22510 | -22510 | -30900 | -30900 | -32540 | -33630 | .29130 | .16120 |
| .899 | -.916 | -22120 | -22660 | -22550 | -22930 | -31870 | -31870 | -33610 | -33600 | .26710 | .18810 |
| .899 | .133 | -23360 | -22870 | -23240 | -23030 | -32370 | -32370 | -34010 | -34800 | .24080 | .21250 |
| .900 | .645 | -22860 | -22930 | -23120 | -22710 | -32570 | -32570 | -33210 | -33690 | .22910 | .22550 |
| .900 | 1.174 | -23710 | -23470 | -22860 | -23310 | -31270 | -31270 | -32080 | -33010 | .19200 | .24310 |
| .898 | 2.211 | -24630 | -24490 | -24640 | -24370 | -32430 | -32430 | -33170 | -33660 | .19070 | .26500 |
| .898 | 3.257 | -25090 | -24880 | -24740 | -24740 | -33050 | -33050 | -34050 | -34740 | .16780 | .29190 |
| .898 | 4.295 | -25920 | -25940 | -25560 | -25770 | -33570 | -33570 | -33720 | -34170 | .14360 | .31870 |
| .896 | 6.366 | -27250 | -27620 | -27750 | -27950 | -35480 | -35480 | -35720 | -35720 | .09020 | .36900 |
| | GRADIENT | -.00659 | -.00587 | -.00573 | -.00517 | -.00349 | -.00349 | -.00123 | -.00035 | -.02368 | .02511 |

DATE 10 MAR 80

OAI145 TABULATED FORCE DATA

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AMES 118-1-11 OAI145A 01

(E2F093) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 15.000 RUDDER = -5.000
 RN/L = 5.000

RUN NO. 683/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|
| .951 | -6.103 | -25150 | -25400 | -25890 | -25600 | -33340 | -33340 | -34590 | -35010 | 41880 | .09150 |
| .952 | -1.946 | -24090 | -23710 | -23810 | -24010 | -32900 | -32900 | -33680 | -34460 | 32460 | .19240 |
| .951 | .915 | -24730 | -24700 | -24730 | -24300 | -33040 | -33040 | -33920 | -34800 | 30050 | .21990 |
| .951 | .036 | -25340 | -25210 | -25360 | -25510 | -33900 | -33900 | -34780 | -36160 | 27620 | .24320 |
| .951 | .589 | -25430 | -25410 | -25400 | -25100 | -33210 | -33210 | -34560 | -35100 | 26660 | .25970 |
| .950 | 1.077 | -25340 | -25430 | -25480 | -25480 | -33690 | -33690 | -34840 | -36360 | 25320 | .26840 |
| .949 | 2.149 | -25290 | -25580 | -25540 | -25280 | -34780 | -34780 | -35510 | -35910 | 22570 | .29290 |
| .951 | 3.190 | -25330 | -26620 | -26350 | -25570 | -34560 | -34560 | -35270 | -35690 | 20620 | .32240 |
| .948 | 4.231 | -27060 | -27190 | -27340 | -27840 | -36020 | -36020 | -36520 | -38140 | 17900 | .34560 |
| .947 | 6.312 | -29230 | -29160 | -28680 | -29110 | -36950 | -36950 | -39550 | -39410 | 13280 | .40200 |
| | GRADIENT | -0.0343 | -0.0433 | -0.0501 | -0.0479 | -0.0471 | -0.0471 | -0.0416 | -0.0443 | -0.02345 | .02470 |

RUN NO. 677/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|
| 1.199 | -6.106 | -31170 | -31400 | -31170 | -31270 | -31790 | -31790 | -31640 | -31810 | 54380 | .26200 |
| 1.200 | -1.954 | -30760 | -30690 | -30700 | -30720 | -30740 | -30740 | -31440 | -31370 | 45590 | .31660 |
| 1.198 | -.924 | -30790 | -30740 | -30740 | -30540 | -31140 | -31140 | -31280 | -31770 | 43040 | .33570 |
| 1.199 | .053 | -30510 | -30540 | -30480 | -30710 | -31570 | -31570 | -31720 | -32620 | 41070 | .36110 |
| 1.199 | .675 | -30940 | -31000 | -30840 | -30740 | -31460 | -31460 | -31900 | -32380 | 40140 | .37440 |
| 1.199 | 1.179 | -30840 | -31040 | -30970 | -31030 | -31560 | -31560 | -31830 | -32390 | 39210 | .38840 |
| 1.200 | 2.215 | -30860 | -30880 | -30860 | -30940 | -31240 | -31240 | -31880 | -32510 | 37590 | .41600 |
| 1.198 | 3.258 | -31280 | -31390 | -31030 | -31400 | -31610 | -31610 | -32150 | -32200 | 35080 | .43880 |
| 1.199 | 4.296 | -30920 | -31260 | -30930 | -31000 | -31030 | -31030 | -32110 | -32420 | 33480 | .46980 |
| 1.197 | 6.364 | -31740 | -31680 | -31780 | -32060 | -32010 | -32010 | -32450 | -33450 | 30030 | .51910 |
| | GRADIENT | -0.0061 | -0.0113 | -0.0057 | -0.0097 | -0.0047 | -0.0047 | -0.0131 | -0.0128 | -0.01902 | .02467 |

RUN NO. 668/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|
| 1.403 | -6.117 | -29260 | -29260 | -29310 | -29270 | -29720 | -29720 | -29940 | -30150 | 57680 | .35310 |
| 1.406 | -1.968 | -29690 | -29700 | -29470 | -29620 | -30070 | -30070 | -30430 | -30530 | 50170 | .42350 |
| 1.402 | -.908 | -29490 | -29660 | -29580 | -29700 | -30200 | -30200 | -30550 | -30560 | 48800 | .43300 |
| 1.403 | .152 | -29880 | -29910 | -29800 | -29880 | -30080 | -30080 | -30450 | -30610 | 48280 | .44660 |
| 1.403 | .633 | -29790 | -29860 | -29870 | -29860 | -29970 | -29970 | -30430 | -30660 | 47910 | .44990 |
| 1.403 | 1.169 | -29760 | -29640 | -29670 | -29740 | -30090 | -30090 | -30400 | -30730 | 47460 | .45280 |
| 1.402 | 2.225 | -30230 | -29940 | -30190 | -30070 | -30330 | -30330 | -30450 | -30790 | 46630 | .46410 |
| 1.402 | 3.275 | -29790 | -29990 | -29870 | -29880 | -30090 | -30090 | -30520 | -30520 | 44520 | .48020 |
| 1.403 | 4.324 | -29770 | -29910 | -29900 | -29850 | -29840 | -29840 | -30220 | -30540 | 41800 | .50320 |
| 1.400 | 6.409 | -29310 | -29230 | -29230 | -29260 | -28880 | -28880 | -29330 | -29740 | 34930 | .55090 |
| | GRADIENT | -0.0044 | -0.0044 | -0.0068 | -0.0037 | -0.0031 | -0.0031 | -0.0023 | -0.0027 | -0.01212 | .01199 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

AMES 118-1-11 OAI45A 01

(E2F094) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = .000 RUDDER = .000
 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 717/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .950 | -5.032 | -30100 | -30220 | -30710 | -30280 | -40260 | -40260 | -40560 | -41530 | -12920 | -13310 |
| .951 | .005 | -29130 | -29090 | -28780 | -28990 | -36390 | -36390 | -37190 | -38260 | -21670 | -19950 |
| .949 | 2.541 | -28650 | -29220 | -29360 | -29120 | -37160 | -37160 | -38750 | -39690 | -24700 | -22300 |
| .950 | 4.989 | -27730 | -26930 | -28110 | -28110 | -34960 | -34960 | -35630 | -36540 | -27080 | -24050 |
| .949 | 7.041 | -27470 | -27260 | -28070 | -27680 | -35200 | -35200 | -36040 | -36790 | -29090 | -25260 |
| .950 | 8.063 | -27770 | -27430 | -27620 | -27660 | -35380 | -35380 | -36110 | -37050 | -29710 | -26140 |
| .949 | 10.100 | -28140 | -27720 | -28390 | -28630 | -37290 | -37290 | -37930 | -37930 | -30370 | -26330 |
| .950 | 12.164 | -29830 | -29010 | -29110 | -29720 | -38500 | -38500 | -39700 | -40140 | -30880 | -26580 |
| .950 | 15.239 | -32770 | -32130 | -32680 | -32460 | -42140 | -42140 | -43600 | -43780 | -30700 | -26020 |
| GRADIENT | | .00280 | .00429 | .00132 | .00175 | .00282 | .00282 | .00306 | .00338 | .01084 | .00822 |

RUN NO. 713/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.200 | -5.010 | -29690 | -29760 | -29830 | -29830 | -28800 | -28800 | -29090 | -29820 | -32870 | -34260 |
| 1.203 | .004 | -29440 | -29270 | -29210 | -29310 | -29020 | -29020 | -29560 | -30200 | -38180 | -35600 |
| 1.200 | 2.559 | -29670 | -29430 | -29530 | -29590 | -29990 | -29990 | -30590 | -31370 | -39730 | -35710 |
| 1.196 | 5.094 | -30910 | -30940 | -30980 | -30940 | -31370 | -31370 | -32320 | -32810 | -40950 | -36090 |
| 1.198 | 7.158 | -31390 | -31550 | -31620 | -31510 | -31470 | -31470 | -32210 | -32040 | -42100 | -36210 |
| 1.198 | 8.193 | -31470 | -31600 | -31600 | -31480 | -31410 | -31410 | -32260 | -32840 | -42350 | -36490 |
| 1.198 | 10.175 | -31520 | -31580 | -31440 | -31270 | -32210 | -32210 | -32660 | -33230 | -43100 | -36670 |
| 1.201 | 12.208 | -30950 | -31010 | -30710 | -30980 | -31780 | -31780 | -32480 | -32820 | -43770 | -37170 |
| 1.199 | 15.261 | -32670 | -32790 | -32580 | -32650 | -33200 | -33200 | -33760 | -33960 | -43580 | -36740 |
| GRADIENT | | .00090 | .00063 | .00125 | .00110 | .00380 | .00380 | .00403 | .00458 | .00607 | .00043 |

RUN NO. 710/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.399 | -4.975 | -27630 | -27780 | -27640 | -27880 | -29500 | -29500 | -29680 | -30050 | -45150 | -35600 |
| 1.405 | .032 | -29170 | -29320 | -29320 | -29200 | -29480 | -29480 | -29640 | -29880 | -44020 | -35820 |
| 1.403 | 2.589 | -30080 | -29880 | -30080 | -30200 | -30410 | -30410 | -30720 | -31020 | -45530 | -44770 |
| 1.400 | 5.161 | -30760 | -30720 | -30660 | -30720 | -31100 | -31100 | -31210 | -31500 | -47810 | -44390 |
| 1.400 | 7.198 | -31450 | -31550 | -31710 | -31650 | -31750 | -31750 | -32140 | -32380 | -48800 | -45480 |
| 1.400 | 8.188 | -31910 | -32080 | -31970 | -31970 | -32250 | -32250 | -32480 | -32650 | -48370 | -45890 |
| 1.399 | 10.172 | -32160 | -32270 | -32390 | -32310 | -32170 | -32170 | -32390 | -32670 | -49350 | -45880 |
| 1.399 | 12.114 | -33070 | -33040 | -33390 | -33000 | -32480 | -32480 | -32750 | -33000 | -49420 | -45080 |
| 1.397 | 15.070 | -33370 | -33450 | -33450 | -33480 | -31900 | -31900 | -32140 | -32430 | -50020 | -45240 |
| GRADIENT | | .00322 | .00282 | .00324 | .00301 | .00103 | .00103 | .00117 | .00106 | .00012 | .01272 |

DATE 10 MAR 80

OAI145 TABULATED FORCE DATA

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AMES 118-1-11 OAI145A 01

(E2F095) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

ALPHA =
 AILRON =
 SPDBRK =
 RN/L =

5.000 ELEVON = .000
 .000 BDFLAP = .000
 40.000 RUDDER = .000
 5.000

PARAMETRIC DATA

RUN NO. 728/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|--------|--------|---------|---------|---------|---------|
| .597 | -6.054 | -22770 | -22630 | -22490 | -22460 | -24130 | -24130 | -25220 | -26740 | .29940 | -.01380 |
| .596 | -1.926 | -21900 | -21250 | -21090 | -21640 | -24030 | -24030 | -24940 | -26320 | .20100 | .08720 |
| .596 | -.981 | -21370 | -21030 | -20730 | -21200 | -23430 | -23430 | -24660 | -26060 | .17510 | .11490 |
| .597 | .028 | -22310 | -21880 | -22310 | -22280 | -24050 | -21050 | -24860 | -26350 | .14970 | .13170 |
| .597 | .642 | -21760 | -21830 | -21810 | -21930 | -23860 | -23860 | -25280 | -26620 | .13900 | .14940 |
| .597 | 1.144 | -21700 | -22130 | -21610 | -21940 | -24020 | -24020 | -24900 | -26600 | .12710 | .16000 |
| .598 | 2.190 | -22100 | -22120 | -22190 | -21910 | -23820 | -23820 | -24810 | -26570 | .10230 | .18650 |
| .598 | 3.221 | -22080 | -22200 | -21510 | -22100 | -23190 | -23190 | -25270 | -26420 | .07610 | .21700 |
| .597 | 4.258 | -22810 | -22240 | -22360 | -22100 | -24210 | -24210 | -25420 | -27260 | .05300 | .23610 |
| .596 | 6.319 | -23900 | -23680 | -23800 | -23470 | -25220 | -25220 | -26220 | -27160 | .00120 | .28080 |
| | GRADIENT | -.00138 | -.00189 | -.00175 | -.00059 | .00007 | .00007 | -.00085 | -.00127 | -.02383 | .02442 |

RUN NO. 727/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| .800 | -6.098 | -23430 | -23310 | -23460 | -23410 | -25990 | -25990 | -26610 | -27880 | .34390 | .01510 |
| .793 | -1.355 | -23140 | -22970 | -22710 | -22520 | -26040 | -26040 | -27140 | -28640 | .24200 | .11550 |
| .799 | -.913 | -22030 | -22200 | -22630 | -22420 | -25640 | -25640 | -26940 | -28350 | .21910 | .14360 |
| .799 | .094 | -23130 | -22940 | -23110 | -22640 | -25650 | -25650 | -27120 | -28570 | .19060 | .16940 |
| .798 | .663 | -22830 | -22850 | -22490 | -23220 | -26050 | -26050 | -27320 | -28680 | .18320 | .18340 |
| .799 | 1.158 | -22910 | -23020 | -23100 | -23190 | -25860 | -25860 | -27670 | -28450 | .16940 | .19670 |
| .793 | 2.203 | -22870 | -22680 | -22610 | -23260 | -26610 | -26610 | -27130 | -28380 | .14100 | .21910 |
| .797 | 3.249 | -23660 | -23880 | -23730 | -23380 | -26260 | -26260 | -27330 | -29270 | .11440 | .24910 |
| .798 | 4.288 | -23580 | -23660 | -23900 | -23560 | -26690 | -26690 | -27450 | -28850 | .08960 | .27320 |
| .797 | 6.355 | -25030 | -24380 | -24170 | -24940 | -27090 | -27090 | -27880 | -30030 | .04410 | .32440 |
| | GRADIENT | -.00150 | -.00179 | -.00188 | -.00190 | -.00142 | -.00142 | -.00123 | -.00077 | -.02462 | .02509 |

RUN NO. 724/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|--------|---------|--------|
| .902 | -6.094 | -25050 | -25020 | -24980 | -25040 | -30270 | -30270 | -30700 | -32060 | .38610 | .05660 |
| .902 | -1.962 | -24360 | -24290 | -24240 | -24380 | -31850 | -31850 | -32860 | -33720 | .29100 | .16100 |
| .898 | -.906 | -25350 | -25260 | -25600 | -25120 | -33040 | -33040 | -34210 | -35030 | .25990 | .18180 |
| .901 | .105 | -25260 | -25390 | -25470 | -25440 | -32520 | -32520 | -33980 | -34930 | .23790 | .21160 |
| .899 | .656 | -25300 | -25180 | -25350 | -26040 | -33430 | -33430 | -34140 | -34500 | .22510 | .22060 |
| .900 | 1.156 | -25700 | -25510 | -25520 | -26070 | -32880 | -32880 | -33390 | -34190 | .21110 | .23440 |
| .902 | 2.223 | -26830 | -26580 | -25920 | -25710 | -32790 | -32790 | -32690 | -33110 | .18870 | .26500 |
| .899 | 3.266 | -26210 | -26890 | -27150 | -26650 | -33190 | -33190 | -33240 | -33700 | .16360 | .28910 |
| .900 | 4.304 | -27430 | -26840 | -26840 | -27820 | -34000 | -34000 | -34290 | -34290 | .14150 | .31540 |
| .896 | 6.376 | -29320 | -28810 | -29400 | -29920 | -34740 | -34740 | -35650 | -36660 | .08940 | .36830 |
| | GRADIENT | -.00397 | -.00475 | -.00421 | -.00450 | -.00231 | -.00231 | -.00031 | .00100 | -.02359 | .02504 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1859

(EZF096) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6900 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = 40.000
 RN/L = 5.000

| MACH | RUDDER | RUN NO. 730/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | |
|------|----------|--|--------|--------|--------|--------|--------|--------|---------|---------|------|
| | | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
| .596 | -14.976 | -22350 | -22130 | -22900 | -22190 | -24580 | -25390 | -26710 | .14890 | .13210 | |
| .597 | -10.727 | -22380 | -22190 | -22100 | -22570 | -24400 | -25530 | -27190 | .15050 | .13220 | |
| .597 | -4.932 | -22060 | -22180 | -22110 | -22160 | -24030 | -25620 | -26920 | .15300 | .13580 | |
| .597 | -2.426 | -21950 | -22210 | -21830 | -21410 | -24080 | -25470 | -23590 | .15120 | .13410 | |
| .597 | .089 | -21350 | -22150 | -21660 | -21400 | -24020 | -25130 | -26430 | .15110 | .13520 | |
| .597 | 2.505 | -22140 | -22050 | -21900 | -21670 | -24190 | -25250 | -26760 | .14880 | .13340 | |
| .597 | 4.996 | -21720 | -21910 | -21620 | -22000 | -23780 | -25220 | -26300 | .13610 | .13610 | |
| .598 | 10.027 | -22570 | -22380 | -22100 | -22100 | -24120 | -25040 | -26340 | .15340 | .13250 | |
| .597 | 14.970 | -22860 | -22440 | -22530 | -22630 | -23730 | -25680 | -26850 | .15240 | .13680 | |
| .597 | 18.134 | -22410 | -22720 | -22500 | -22760 | -24000 | -25300 | -26500 | .15070 | .13530 | |
| .597 | 22.827 | -23320 | -23010 | -23060 | -23560 | -24870 | -25670 | -27260 | .14820 | .13020 | |
| | GRADIENT | .00019 | .00027 | .00036 | .00002 | .00016 | .00041 | .00043 | -.00044 | -.00000 | |

| MACH | RUDDER | RUN NO. 721/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | |
|------|----------|--|--------|--------|--------|--------|--------|--------|--------|--------|------|
| | | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
| .900 | -14.976 | -26380 | -26210 | -25950 | -26560 | -34330 | -35090 | -36240 | .23360 | .21090 | |
| .901 | -10.754 | -25940 | -25800 | -25920 | -26030 | -33630 | -34700 | -35100 | .23450 | .21100 | |
| .902 | -4.947 | -24720 | -24930 | -24400 | -24960 | -33330 | -33260 | -34450 | .23580 | .21170 | |
| .900 | -2.426 | -24730 | -24970 | -25470 | -25430 | -33230 | -34290 | -34370 | .23630 | .21120 | |
| .902 | .123 | -24560 | -24970 | -24610 | -24730 | -32720 | -33320 | -35000 | .23890 | .21300 | |
| .901 | 2.531 | -24760 | -24890 | -24670 | -25130 | -33080 | -33390 | -34220 | .23630 | .21170 | |
| .899 | 10.027 | -25770 | -25030 | -24790 | -25510 | -33460 | -33960 | -34550 | .23720 | .20670 | |
| .902 | 15.022 | -24940 | -25230 | -24360 | -24770 | -32410 | -33640 | -33720 | .24140 | .21060 | |
| .901 | 18.116 | -25230 | -25050 | -25610 | -25460 | -32180 | -33490 | -34170 | .24150 | .21130 | |
| .900 | 22.827 | -25900 | -26650 | -26330 | -25690 | -32810 | -33270 | -33390 | .24040 | .20870 | |
| | GRADIENT | .00001 | .00005 | .00000 | .00006 | .00049 | .00022 | .00005 | .00016 | .00007 | |

AMES 118-1-11 0A145A 01

(E2F096) (08 JUL 77)

REFERENCE DATA

| | | | | | | | | | |
|---|-------|---|-----------|--------|---|------|---|-----------|--------|
| = | SREF | = | 2690.0000 | SO.FT. | = | XMRP | = | 1076.6800 | IN. ZO |
| = | LREF | = | 474.8100 | INCHES | = | YMRP | = | .0000 | IN. ZO |
| = | BREF | = | 936.6800 | INCHES | = | ZMRP | = | 375.0000 | IN. ZO |
| = | SCALE | = | .0500 | | | | | | |

ALPHA -
ELEVON -
BOFLAP -
RN/L -

| | | | |
|-------|--------|---|--------|
| 5.000 | BETA | = | .000 |
| .000 | AILRON | = | .000 |
| .000 | SPDBRX | = | 40.000 |
| 5.000 | | | |

PARAMETRIC DATA

| | | | | | | |
|---------|--------|--------|------|---------------------|--------|------|
| RUN NO. | 720/ 0 | RN/L = | 5.07 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|---------|--------|--------|------|---------------------|--------|------|

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-----------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .92 | -14.983 | -28140 | -28420 | -27420 | -27830 | -34760 | -34760 | -35880 | -36110 | .27400 | .24990 |
| .951 | -10.745 | -27720 | -27410 | -27150 | -26940 | -34750 | -34750 | -35940 | -36690 | .27060 | .24750 |
| .951 | -4.924 | -27800 | -27230 | -27590 | -28510 | -35000 | -35000 | -36100 | -36840 | .27050 | .24430 |
| .950 | -2.426 | -28090 | -27730 | -27810 | -27730 | -34470 | -34470 | -36010 | -36530 | .26910 | .24510 |
| .952 | - .103 | -27280 | -27450 | -27150 | -27150 | -34510 | -34510 | -35330 | -35830 | .27250 | .24630 |
| .950 | 2.513 | -27440 | -27620 | -27710 | -27410 | -34670 | -34670 | -36080 | -36160 | .27100 | .24430 |
| .951 | 3.308 | -27600 | -27040 | -27450 | -27010 | -34050 | -34050 | -35520 | -36180 | .27100 | .24710 |
| .951 | 5.033 | -27850 | -27540 | -27420 | -27930 | -34990 | -34990 | -35430 | -36430 | .26970 | .24270 |
| .951 | 10.019 | -27500 | -23210 | -28120 | -27280 | -34380 | -34380 | -35520 | -36160 | .27180 | .24410 |
| .951 | 15.032 | -28060 | -28700 | -28080 | -28230 | -34200 | -34200 | -35730 | -36110 | .27260 | .24500 |
| .951 | 18.134 | -28080 | -27570 | -27820 | -28240 | -34190 | -34190 | -35870 | -36480 | .27220 | .24490 |
| .950 | 22.827 | -28490 | -28280 | -28020 | -28480 | -35230 | -35230 | -35550 | -36480 | .26860 | .24020 |
| CANDIDENT | .00053 | .00012 | .00016 | .00072 | .00154 | .00072 | .00072 | .00046 | .00083 | .00014 | .00019 |

| | | | | | |
|---------|--------|--------|------|---------------------|-------------|
| RUN NO. | 712/ 0 | RN/L = | 5.02 | GRADIENT INTERVAL = | -5.00/ 5.00 |
|---------|--------|--------|------|---------------------|-------------|

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.200 | -14.965 | -31500 | -31620 | -31530 | -31430 | -32250 | -32250 | -32840 | -33600 | -40920 | -36170 |
| 1.202 | -10.750 | -31490 | -31470 | -30930 | -31420 | -31830 | -31830 | -33000 | -33070 | -41230 | -36240 |
| 1.201 | -4.947 | -31030 | -31090 | -30730 | -30870 | -32010 | -32010 | -32190 | -32400 | -41120 | -36130 |
| 1.199 | -2.451 | -31170 | -31090 | -31110 | -31030 | -32010 | -32010 | -32370 | -32500 | -40930 | -35920 |
| 1.200 | -0.996 | -30890 | -31180 | -31140 | -31220 | -31640 | -31640 | -32390 | -32500 | -41020 | -36070 |
| 1.200 | 2.496 | -31160 | -31140 | -31160 | -30720 | -31800 | -31800 | -32520 | -32710 | -40960 | -36140 |
| 1.201 | 5.024 | -30630 | -30770 | -30920 | -30970 | -31680 | -31680 | -32620 | -32620 | -41100 | -36130 |
| 1.200 | 10.003 | -31230 | -31660 | -31900 | -31560 | -32130 | -32130 | -33030 | -33320 | -41010 | -35990 |
| 1.201 | 15.005 | -31120 | -31420 | -31300 | -31430 | -31920 | -31920 | -32630 | -33090 | -41210 | -36310 |
| 1.200 | 18.125 | -31600 | -31660 | -31860 | -31630 | -32150 | -32150 | -32940 | -33110 | -41090 | -36160 |
| 1.200 | 22.818 | -32030 | -31920 | -31930 | -31800 | -32640 | -32640 | -33170 | -33540 | -40940 | -35900 |
| 1.199 | GRADIENT | -010005 | -00010 | -00053 | -00012 | -00040 | -00040 | -00041 | -00045 | -00016 | -00007 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1861

AMES 118-1-11 OAI45A 01

(E2F096) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 711/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = 40.000
 RN/L = 5.000

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.407 | -14.993 | -31120 | -31150 | -31160 | -31220 | -31490 | -31490 | -31730 | -31930 | .47350 | .44580 |
| 1.406 | -10.745 | -30860 | -30890 | -30730 | -30870 | -31080 | -31080 | -31410 | -31570 | .47600 | .44710 |
| 1.404 | -4.947 | -30640 | -30790 | -30890 | -30830 | -30970 | -30970 | -31340 | -31550 | .47440 | .44710 |
| 1.403 | -2.418 | -30780 | -30610 | -30580 | -30620 | -31080 | -31080 | -31310 | -31510 | .47240 | .44300 |
| 1.402 | -1.110 | -30680 | -30830 | -30610 | -30750 | -30950 | -30950 | -31470 | -31560 | .47420 | .44440 |
| 1.403 | 2.505 | -30560 | -30670 | -30560 | -30600 | -30890 | -30890 | -31030 | -31380 | .47540 | .44610 |
| 1.402 | 5.005 | -30710 | -30820 | -30780 | -30750 | -31060 | -31060 | -31360 | -31660 | .47500 | .44540 |
| 1.403 | 10.011 | -30880 | -30900 | -30790 | -30750 | -31150 | -31150 | -31370 | -31570 | .47700 | .44560 |
| 1.403 | 15.022 | -31100 | -31160 | -31110 | -31100 | -31290 | -31290 | -31400 | -31890 | .47490 | .44640 |
| 1.402 | 18.107 | -31390 | -31420 | -31300 | -31310 | -31450 | -31450 | -31770 | -32090 | .47720 | .44590 |
| 1.402 | 22.780 | -31380 | -31440 | -31400 | -31510 | -31580 | -31580 | -31830 | -32060 | .47480 | .44470 |
| | GRADIENT | .00014 | .00006 | .00039 | .00023 | .00015 | .00015 | .00032 | .00019 | .00019 | .00007 |

AMES 118-1-11 OAI45A 01

(E2F097) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 40.000 RUDDER = -5.000
 RN/L = 5.000

RUN NO. 729/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .598 | -6.019 | -22800 | -22680 | -22730 | -22770 | -24250 | -24250 | -25360 | -26660 | .29600 | -.01350 |
| .598 | -1.918 | -21610 | -21840 | -21750 | -21790 | -24160 | -24160 | -25010 | -26610 | .20000 | .08360 |
| .597 | -.881 | -21720 | -21770 | -21870 | -21770 | -24180 | -24180 | -25130 | -26050 | .17480 | .10920 |
| .598 | .079 | -22280 | -22120 | -21830 | -22280 | -23730 | -23730 | -24680 | -26490 | .14880 | .13440 |
| .597 | .627 | -22000 | -21840 | -21720 | -22030 | -24090 | -24090 | -25600 | -26900 | .14090 | .14570 |
| .597 | 1.152 | -21860 | -21760 | -21410 | -21790 | -23960 | -23960 | -24550 | -26370 | .12540 | .16060 |
| .597 | 2.199 | -22300 | -22060 | -22040 | -22300 | -24210 | -24210 | -25270 | -26920 | .10030 | .18530 |
| .597 | 3.229 | -22800 | -22990 | -22470 | -22780 | -24330 | -24330 | -25250 | -27310 | .07360 | .20920 |
| .597 | 4.265 | -22700 | -22610 | -22400 | -22160 | -24200 | -24200 | -25470 | -27270 | .05420 | .23610 |
| .597 | 6.323 | -22880 | -23520 | -22800 | -22900 | -25400 | -25400 | -25830 | -27700 | .00330 | .27890 |
| | GRADIENT | -.00189 | -.00166 | -.00124 | -.00139 | -.00032 | -.00032 | -.00068 | -.00167 | -.02387 | .02453 |

DATE 10 MAR 80

OAI145 TABULATED FORCE DATA

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AMES 118-1-11 OAI145A 01

(E2F097) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
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ALPHA =
 AILRON =
 SPOBRK =
 RN/L =

5.000 ELEVON = .000
 .000 BDFLAP = .000
 40.000 RUDDER = -5.000
 5.000

PARAMETRIC DATA

RUN NO. 723/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| .902 | -6.110 | -24990 | -25170 | -24500 | -24690 | -30140 | -30140 | -31260 | -31860 | .38830 | .05760 |
| .900 | -1.948 | -24810 | -24680 | -24880 | -25140 | -32300 | -32300 | -33680 | -34140 | .28780 | .15840 |
| .900 | -.904 | -25210 | -24630 | -25110 | -24610 | -33250 | -33250 | -33850 | -36280 | .26040 | .18350 |
| .900 | .164 | -25040 | -25490 | -25060 | -25510 | -32910 | -32910 | -34310 | -35110 | .23700 | .21100 |
| .899 | .662 | -25780 | -24830 | -25050 | -25360 | -32550 | -32550 | -33540 | -34460 | .22660 | .22450 |
| .900 | 1.191 | -25580 | -26030 | -25090 | -26730 | -33080 | -33080 | -33210 | -33490 | .21380 | .23680 |
| .898 | 2.231 | -25740 | -25720 | -25690 | -26030 | -33570 | -33570 | -33890 | -32850 | .19090 | .26220 |
| .898 | 3.275 | -27630 | -27910 | -27910 | -27700 | -34300 | -34300 | -34620 | -34790 | .15910 | .28700 |
| .899 | 4.312 | -27130 | -27060 | -26760 | -27550 | -33630 | -33630 | -34550 | -34520 | .14160 | .31760 |
| .897 | 6.384 | -27590 | -29590 | -28590 | -27920 | -36000 | -36000 | -37300 | -36090 | .08850 | .36480 |
| | GRADIENT | .00426 | .00490 | .00416 | .00486 | .00240 | .00240 | .00134 | .00139 | -.02355 | .02518 |

RUN NO. 719/ 0 RN/L = 5.08 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| .953 | -6.100 | -27520 | -27420 | -27570 | -27370 | -34490 | -34490 | -35160 | -35870 | .41880 | .08970 |
| .950 | -1.952 | -25070 | -26540 | -26920 | -26620 | -34220 | -34220 | -35130 | -35450 | .31900 | .18810 |
| .952 | -.903 | -26570 | -26220 | -27150 | -27150 | -33940 | -33940 | -35130 | -36160 | .29760 | .21940 |
| .951 | .169 | -27630 | -28250 | -28120 | -27550 | -34640 | -34640 | -35770 | -36320 | .27250 | .24570 |
| .951 | .646 | -28020 | -27430 | -27580 | -27660 | -34210 | -34210 | -35580 | -36370 | .26270 | .25900 |
| .951 | 1.170 | -27320 | -27200 | -26840 | -27510 | -34400 | -34400 | -35550 | -36410 | .24970 | .27180 |
| .949 | 2.228 | -27760 | -27770 | -27730 | -27840 | -35280 | -35280 | -36550 | -37370 | .22170 | .29430 |
| .950 | 3.276 | -28550 | -28930 | -28780 | -28680 | -35670 | -35670 | -36690 | -37810 | .19890 | .32240 |
| .950 | 4.318 | -18430 | -23130 | -23940 | -18890 | -36180 | -36180 | -36380 | .00000 | .17710 | .34920 |
| .948 | 6.385 | -31570 | -30910 | -31290 | -30360 | -38390 | -38390 | -40080 | -40650 | .12670 | .39830 |
| | GRADIENT | .04502 | .00187 | .00213 | .00693 | .00350 | .00350 | .00265 | .03538 | -.02309 | .02521 |

RUN NO. 715/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| 1.200 | -6.087 | -30920 | -31010 | -31240 | -30970 | -31540 | -31540 | -31540 | -31720 | .54290 | .26120 |
| 1.200 | -1.944 | -30880 | -30950 | -30830 | -30960 | -31080 | -31080 | -31620 | -31490 | .45410 | .31670 |
| 1.200 | -.897 | -30990 | -30890 | -30680 | -30700 | -31690 | -31690 | -31850 | -32390 | .43130 | .33800 |
| 1.199 | .146 | -31030 | -31310 | -30970 | -31010 | -32040 | -32040 | -31810 | -32200 | .41000 | .36120 |
| 1.200 | .642 | -31010 | -31000 | -30980 | -30930 | -31810 | -31810 | -32260 | -33040 | .39890 | .37450 |
| 1.200 | 1.153 | -30670 | -30860 | -30730 | -30990 | -31460 | -31460 | -32270 | -32770 | .39080 | .38940 |
| 1.200 | 2.207 | -31020 | -31090 | -31040 | -31070 | -31760 | -31760 | -32620 | -32850 | .37210 | .41340 |
| 1.200 | 3.256 | -30460 | -30960 | -31040 | -30920 | -31180 | -31180 | -31690 | -32040 | .35160 | .44190 |
| 1.199 | 4.296 | -30700 | -31170 | -31080 | -30740 | -31400 | -31400 | -32340 | -32290 | .33360 | .46700 |
| 1.197 | 6.361 | -31840 | -31600 | -32040 | -31660 | -31800 | -31800 | -32410 | -33000 | .29970 | .51690 |
| | GRADIENT | .00058 | .00020 | .00038 | .00006 | .00016 | .00016 | .00086 | .00068 | -.01916 | .02447 |

DATE 10 MAR 80

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AMES 118-1-11 OAI45A 01

(E2F097) (08 JUL 77)

REFERENCE DATA

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 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 40.000 RUDDER = -5.000
 RN/L = 5.000

RUN NO. 709/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| 1.404 | -6.218 | -30150 | -30100 | -30070 | -30100 | -30660 | -30660 | -30830 | -30960 | .57820 | .34690 |
| 1.409 | -2.071 | -30510 | -30580 | -30460 | -30580 | -30950 | -30950 | -31080 | -31400 | .49790 | .42340 |
| 1.408 | -1.017 | -30560 | -30680 | -30600 | -30700 | -30980 | -30980 | -31250 | -31520 | .48730 | .43380 |
| 1.407 | .057 | -30720 | -30790 | -30830 | -30920 | -31090 | -31090 | -31320 | -31580 | .47760 | .44680 |
| 1.406 | .572 | -30690 | -30680 | -30760 | -30700 | -31020 | -31020 | -31270 | -31440 | .47180 | .44980 |
| 1.407 | 1.107 | -30590 | -30630 | -30570 | -30620 | -30920 | -30920 | -31070 | -31350 | .46600 | .45330 |
| 1.405 | 2.158 | -30810 | -30840 | -30840 | -30670 | -30890 | -30890 | -31240 | -31430 | .46360 | .46260 |
| 1.405 | 3.203 | -30510 | -30490 | -30530 | -30510 | -30780 | -30780 | -30970 | -31170 | .44240 | .47860 |
| 1.404 | 4.247 | -30370 | -30430 | -30530 | -30390 | -30560 | -30560 | -30840 | -31060 | .41570 | .50190 |
| 1.402 | 6.359 | -29780 | -29680 | -29820 | -29730 | -29570 | -29570 | -29820 | -30200 | .35290 | .54690 |
| | GRADIENT | .00016 | .00021 | .00001 | .00041 | .00061 | .00061 | .00048 | .00064 | -.01189 | .01157 |

AMES 118-1-11 OAI45A 01

(E2F098) (08 JUL 77)

REFERENCE DATA

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 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

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 AILRON = .000 BDFLAP = .000
 SPDBRK = 55.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 585/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .598 | -5.044 | -24340 | -24410 | -24100 | -24190 | -24320 | -24320 | -24510 | -25170 | -.03610 | -.03760 |
| .598 | -.055 | -23200 | -23220 | -23220 | -23030 | -22760 | -22760 | -22930 | -.22880 | .08610 | .07180 |
| .597 | 2.496 | -23700 | -23470 | -23920 | -23470 | -23670 | -23670 | -23760 | -25140 | .12740 | .10720 |
| .599 | 4.995 | -23360 | -23580 | -23930 | -24170 | -25030 | -25030 | -25710 | -27680 | .15480 | .13320 |
| .598 | 7.036 | -22790 | -22460 | -23170 | -23000 | -25720 | -25720 | -26920 | -29520 | .17560 | .15170 |
| .597 | 8.071 | -23570 | -23140 | -22920 | -22640 | -26500 | -26500 | -27950 | -30560 | .18130 | .15190 |
| .597 | 10.116 | -23280 | -23090 | -23120 | -23620 | -27920 | -27920 | -30420 | -33050 | .18440 | .15060 |
| .597 | 12.179 | -23430 | -23140 | -22550 | -22690 | -28850 | -28850 | -31980 | -34740 | .18560 | .14970 |
| .599 | 15.203 | -24460 | -24560 | -25200 | -24910 | -32380 | -32380 | -33610 | -35170 | .17120 | .12980 |
| | GRADIENT | -.00032 | -.00071 | -.00141 | -.00226 | -.00449 | -.00449 | -.00550 | -.00950 | .01361 | .01216 |

REFERENCE DATA

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LREF = 474.8100 INCHES

BREF = 936.6800 INCHES

SCALE = .0500

XMRP = 1076.6800 IN. XO

YMRP = .0000 IN. YO

ZMRP = 375.0000 IN. ZO

BETA = .000

ELEVON = .000

AILRON = .000

SPDRK = .000

RN/L = .000

RUDDER = .000

PARAMETRIC DATA

| RUN NO. 579/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | |
|--|--------|--------|---------|--------|--------|--------|--------|--------|--------|
| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 |
| .797 | -5.031 | -26120 | -26050 | -26030 | -26610 | -26900 | -26900 | -27220 | -27160 |
| .799 | .008 | -25260 | -24340 | -24870 | -25280 | -25450 | -25450 | -25370 | -25580 |
| .798 | 2.739 | -25100 | -25080 | -24720 | -25080 | -26310 | -26310 | -27500 | -27660 |
| .799 | 5.189 | -24180 | -24100 | -24810 | -24420 | -26820 | -26820 | -28310 | -28840 |
| .797 | 7.199 | -24480 | -24110 | -24440 | -24500 | -28610 | -28610 | -30510 | -31290 |
| .798 | 8.265 | -23950 | -24400 | -23710 | -23990 | -28900 | -28900 | -30590 | -32340 |
| .798 | 9.319 | -24500 | -24670 | -24550 | -24010 | -30260 | -30260 | -31010 | -32220 |
| .799 | 10.184 | -24710 | -24000 | -24040 | -23760 | -30930 | -30930 | -30540 | -32290 |
| .798 | 11.292 | -24750 | -25550 | -25170 | -25720 | -32170 | -32170 | -33380 | -33010 |
| .798 | 12.259 | -24700 | -25620 | -25210 | -25210 | -33110 | -33110 | -34540 | -34710 |
| .799 | 15.278 | -28670 | -29440 | -29640 | -29680 | -39060 | -39060 | -39880 | -39820 |
| GRADIENT | | .00059 | -.00271 | .00055 | .00073 | .00315 | .00315 | .00780 | .00762 |

| RUN NO. 563/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | |
|--|--------|---------|--------|---------|---------|---------|---------|--------|--------|
| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 |
| .899 | -5.104 | -28860 | -29130 | -29080 | -29340 | -31110 | -31110 | -30700 | -32190 |
| .899 | .126 | -26430 | -26950 | -26650 | -26480 | -29270 | -29270 | -30200 | -30110 |
| .899 | 2.426 | -27420 | -27750 | -26870 | -27010 | -31510 | -31510 | -33430 | -33290 |
| .902 | 4.982 | -27180 | -26590 | -26920 | -26710 | -32260 | -32260 | -32730 | -33330 |
| .903 | 7.102 | -27910 | -27530 | -27260 | -27140 | -34570 | -34570 | -34930 | -35350 |
| .898 | 8.114 | -27200 | -28170 | -27860 | -27680 | -34560 | -34560 | -35060 | -35970 |
| .900 | 10.158 | -29220 | -28180 | -27630 | -28520 | -35750 | -35750 | -35370 | -36380 |
| .901 | 12.223 | -29540 | -29340 | -29410 | -28720 | -37850 | -37850 | -38220 | -38390 |
| .903 | 15.254 | -32130 | -32750 | -32970 | -32810 | -42170 | -42170 | -42920 | -43310 |
| GRADIENT | | -.00147 | .00071 | -.00053 | -.00045 | -.00585 | -.00585 | .00495 | .00630 |

| RUN NO. 560/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | |
|--|--------|--------|--------|---------|---------|---------|---------|--------|--------|
| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 |
| .950 | -5.113 | -32240 | -32170 | -32570 | -32020 | -40610 | -40610 | -41510 | -42120 |
| .950 | .082 | -30330 | -30440 | -30260 | -30260 | -37180 | -37180 | -38180 | -39420 |
| .950 | 2.462 | -30250 | -29620 | -30300 | -30610 | -37850 | -37850 | -39160 | -39670 |
| .951 | 5.051 | -28450 | -28180 | -28530 | -28450 | -34670 | -34670 | -35800 | -36320 |
| .950 | 7.112 | -28840 | -28820 | -28700 | -28490 | -35400 | -35400 | -36120 | -36350 |
| .950 | 8.145 | -28570 | -27970 | -28450 | -28980 | -36000 | -36000 | -36550 | -36600 |
| .949 | 10.200 | -29330 | -29110 | -29080 | -28930 | -36720 | -36720 | -37380 | -37730 |
| .949 | 12.223 | -30070 | -30130 | -30120 | -30430 | -38950 | -38950 | -39580 | -40500 |
| .954 | 15.268 | -33720 | -33380 | -32930 | -33710 | -42930 | -42930 | -43540 | -44150 |
| GRADIENT | | .00031 | .00322 | -.00016 | -.00138 | -.00263 | -.00263 | .00385 | .00098 |

| RUN NO. 560/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | |
|--|--------|--------|--------|---------|---------|---------|---------|--------|--------|
| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 |
| .950 | -5.113 | -32240 | -32170 | -32570 | -32020 | -40610 | -40610 | -41510 | -42120 |
| .950 | .082 | -30330 | -30440 | -30260 | -30260 | -37180 | -37180 | -38180 | -39420 |
| .950 | 2.462 | -30250 | -29620 | -30300 | -30610 | -37850 | -37850 | -39160 | -39670 |
| .951 | 5.051 | -28450 | -28180 | -28530 | -28450 | -34670 | -34670 | -35800 | -36320 |
| .950 | 7.112 | -28840 | -28820 | -28700 | -28490 | -35400 | -35400 | -36120 | -36350 |
| .950 | 8.145 | -28570 | -27970 | -28450 | -28980 | -36000 | -36000 | -36550 | -36600 |
| .949 | 10.200 | -29330 | -29110 | -29080 | -28930 | -36720 | -36720 | -37380 | -37730 |
| .949 | 12.223 | -30070 | -30130 | -30120 | -30430 | -38950 | -38950 | -39580 | -40500 |
| .954 | 15.268 | -33720 | -33380 | -32930 | -33710 | -42930 | -42930 | -43540 | -44150 |
| GRADIENT | | .00031 | .00322 | -.00016 | -.00138 | -.00263 | -.00263 | .00385 | .00098 |

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AMES 118-1-11 OAI45A 01

(E2F098) (08 JUL 77)

REFERENCE DATA

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 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 55.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 551/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.100 | -5.114 | -33830 | -33830 | -33660 | -33850 | -34290 | -34290 | -34330 | -35130 | -28770 | -28850 |
| 1.102 | -5.038 | -33250 | -33280 | -33130 | -33460 | -33060 | -33060 | -33670 | -34300 | -35440 | -33160 |
| 1.098 | 2.479 | -33560 | -33840 | -33840 | -34160 | -33960 | -33960 | -34690 | -35400 | -37840 | -34730 |
| 1.099 | 5.060 | -35280 | -34700 | -35250 | -35100 | -36080 | -36080 | -36360 | -37090 | -39440 | -35430 |
| 1.102 | 7.125 | -35440 | -35590 | -35500 | -35590 | -35940 | -35940 | -36110 | -36320 | -40760 | -36040 |
| 1.101 | 8.145 | -36190 | -36070 | -36120 | -36190 | -36350 | -36350 | -36860 | -36860 | -41000 | -36420 |
| 1.100 | 10.194 | -37260 | -36850 | -36890 | -37260 | -38240 | -38240 | -38520 | -39180 | -41250 | -35950 |
| 1.102 | 12.227 | -36830 | -36870 | -37270 | -36760 | -38750 | -38750 | -39230 | -39560 | -41760 | -35750 |
| 1.099 | 15.268 | -39370 | -39050 | -39180 | -39490 | -40680 | -40680 | -40950 | -41750 | -41200 | -35740 |
| | GRADIENT | -00123 | -00223 | -00282 | -00279 | -00358 | -00358 | -00405 | -00437 | -00954 | -00624 |

RUN NO. 534/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.200 | -5.129 | -31040 | -31210 | -31080 | -31110 | -29750 | -29750 | -29990 | -30740 | -35220 | -36120 |
| 1.207 | -8.860 | -29800 | -29840 | -29660 | -29700 | -29090 | -29090 | -29050 | -29810 | -38420 | -35730 |
| 1.200 | 2.486 | -30720 | -30620 | -30640 | -30690 | -30950 | -30950 | -31320 | -32070 | -40510 | -35900 |
| 1.198 | 5.113 | -31620 | -31850 | -31940 | -31990 | -32240 | -32240 | -32390 | -32790 | -41830 | -36280 |
| 1.198 | 7.162 | -32480 | -32380 | -32590 | -32360 | -32390 | -32390 | -32510 | -32790 | -42960 | -36610 |
| 1.199 | 8.196 | -32920 | -32650 | -32670 | -32600 | -33170 | -33170 | -33150 | -33910 | -43330 | -36810 |
| 1.196 | 10.285 | -32670 | -32990 | -32780 | -32730 | -33620 | -33620 | -33680 | -34110 | -43940 | -36940 |
| 1.157 | 12.278 | -33110 | -32980 | -32490 | -32350 | -34110 | -34110 | -33760 | -34320 | -44310 | -37010 |
| 1.159 | 15.289 | -34290 | -34480 | -34440 | -34710 | -34580 | -34580 | -35030 | -35700 | -43970 | -36360 |
| | GRADIENT | -00275 | -00233 | -00293 | -00296 | -00556 | -00556 | -00678 | -00675 | -00625 | -00051 |

RUN NO. 533/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.300 | -5.130 | -28820 | -28810 | -28940 | -28940 | -29560 | -29560 | -29930 | -30460 | -37660 | -38370 |
| 1.300 | -0.032 | -30080 | -30280 | -30230 | -30160 | -30440 | -30440 | -30700 | -30900 | -40660 | -39080 |
| 1.297 | 2.460 | -30560 | -30610 | -30650 | -30350 | -30940 | -30940 | -31340 | -31450 | -42710 | -38670 |
| 1.294 | 5.112 | -31890 | -31970 | -31890 | -31970 | -32220 | -32220 | -33040 | -33330 | -44270 | -38230 |
| 1.295 | 7.148 | -33020 | -33180 | -33260 | -33080 | -33780 | -33780 | -33980 | -34380 | -45240 | -38670 |
| 1.295 | 8.187 | -33330 | -33470 | -33500 | -33460 | -34050 | -34050 | -34490 | -34860 | -45340 | -38590 |
| 1.295 | 10.274 | -34090 | -34380 | -34430 | -34400 | -34830 | -34830 | -34840 | -35530 | -46170 | -39020 |
| 1.293 | 12.266 | -35330 | -35590 | -35440 | -35630 | -35440 | -35440 | -35670 | -36010 | -46470 | -38700 |
| 1.293 | 15.273 | -35340 | -35440 | -35370 | -35420 | -35180 | -35180 | -35340 | -35800 | -47390 | -39360 |
| | GRADIENT | -00193 | -00132 | -00169 | -00076 | -00201 | -00201 | -00257 | -00221 | -00823 | -00165 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(E2F098) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. X0
 YMRP = .0000 IN. Y0
 ZMRP = 375.0000 IN. Z0

BETA =
 AILRON =
 SPDBRK =
 RN/L =

ELEVON = .000
 BDFLAP = .000
 RUDDER = .000

PARAMETRIC DATA

RUN NO. 514/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------|--------|
| 1.400 | -5.109 | -27870 | -27870 | -27840 | -27930 | -28370 | -28370 | -28590 | -29050 | .39500 | .42690 |
| 1.410 | .042 | -29020 | -29200 | -29110 | -29160 | -29360 | -29360 | -29780 | -29930 | .43990 | .43370 |
| 1.406 | 2.430 | -30320 | -30230 | -30370 | -30190 | -30630 | -30630 | -30670 | -31000 | .45620 | .44440 |
| 1.402 | 5.011 | -31040 | -31010 | -30960 | -31040 | -31360 | -31360 | -31570 | -31730 | .47590 | .44310 |
| 1.401 | 7.037 | -31900 | -32000 | -31810 | -31800 | -32060 | -32060 | -32250 | -32420 | .48650 | .44760 |
| 1.401 | 8.168 | -32070 | -32070 | -32170 | -32120 | -32150 | -32150 | -32390 | -32640 | .48590 | .45720 |
| 1.399 | 10.214 | -32410 | -32470 | -32590 | -32600 | -32460 | -32460 | -32770 | -33080 | .49650 | .45670 |
| 1.399 | 12.223 | -32900 | -33170 | -33160 | -33090 | -32510 | -32510 | -32670 | -32940 | .49980 | .44890 |
| 1.396 | 15.289 | -33400 | -33480 | -33510 | -33500 | -31980 | -31980 | -32180 | -32560 | .50340 | .45170 |
| | GRADIENT | - .00526 | - .00417 | - .00510 | - .00417 | - .00514 | - .00514 | - .00360 | - .00433 | .00659 | .00433 |

AMES 118-1-11 OAI45A 01

(E2F099) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. X0
 YMRP = .0000 IN. Y0
 ZMRP = 375.0000 IN. Z0

BETA =
 AILRON =
 SPDBRK =
 RN/L =

ELEVON = .000
 BDFLAP = .000
 RUDDER = .000

PARAMETRIC DATA

RUN NO. 872/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|----------|---------|---------|
| .597 | -5.234 | -23480 | -.07080 | -.00850 |
| .599 | -.258 | -22740 | .03930 | .10520 |
| .598 | 2.258 | -22740 | .07680 | .15100 |
| .597 | 4.946 | -23910 | .10560 | .18390 |
| .597 | 7.993 | -25580 | .12570 | .20140 |
| .597 | 10.079 | -26180 | .13250 | .20830 |
| .597 | 12.070 | -27610 | .12660 | .20930 |
| .596 | 15.068 | -33110 | .09990 | .18300 |
| .597 | 17.057 | -34800 | .07750 | .17330 |
| .597 | 19.010 | -38970 | .04460 | .14380 |
| | GRADIENT | - .00227 | .01272 | .01509 |

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OAI45 TABULATED FORCE DATA

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REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8100 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0500

AMES 118-1-11 OAI45A 01

(E2F099) (06 MAR 80)

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPOBRK = 55.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 871/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .797 | -5.254 | -.26980 | -.01640 | .04710 |
| .801 | -.257 | -.24280 | .08730 | .15650 |
| .798 | 2.268 | -.25480 | .11700 | .18690 |
| .798 | 4.921 | -.26530 | .14220 | .21760 |
| .799 | 8.071 | -.28900 | .17320 | .24230 |
| .799 | 10.083 | -.30730 | .17530 | .25130 |
| .798 | 12.073 | -.36220 | .16910 | .24240 |
| .798 | 15.140 | -.41210 | .15750 | .23510 |
| .799 | 17.091 | -.44300 | .14510 | .22850 |
| .800 | 19.027 | -.45240 | .12570 | .21520 |
| | GRADIENT | -.00434 | .01059 | .01179 |

RUN NO. 870/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|--------|--------|
| .899 | -5.282 | -.30630 | .05020 | .11350 |
| .900 | -.263 | -.29690 | .13440 | .20060 |
| .899 | 2.287 | -.31500 | .15990 | .23230 |
| .899 | 4.940 | -.33360 | .18930 | .25880 |
| .899 | 8.074 | -.35180 | .21540 | .28160 |
| .899 | 10.126 | -.36830 | .21900 | .28750 |
| .900 | 12.120 | -.39380 | .22450 | .29100 |
| .899 | 15.143 | -.44290 | .21390 | .28570 |
| .899 | 17.109 | -.46960 | .20340 | .27800 |
| .898 | 19.064 | -.47400 | .17860 | .26500 |
| | GRADIENT | -.00705 | .01056 | .01118 |

RUN NO. 869/ 0 RN/L = 5.08 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|--------|--------|
| .951 | -5.286 | -.39290 | .10180 | .16440 |
| .951 | -.247 | -.36680 | .17380 | .23850 |
| .950 | 2.285 | -.37760 | .20330 | .26760 |
| .951 | 4.918 | -.39010 | .22430 | .29170 |
| .950 | 8.108 | -.36970 | .24850 | .31170 |
| .950 | 10.129 | -.38710 | .25540 | .32050 |
| .951 | 12.126 | -.41370 | .25850 | .31820 |
| .949 | 15.148 | -.45300 | .24760 | .31670 |
| .950 | 17.126 | -.46740 | .23670 | .31240 |
| .950 | 19.082 | -.46360 | .22210 | .30470 |
| | GRADIENT | .00328 | .00977 | .01029 |

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OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(E2F099) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 55.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 868/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|-------|----------|----------|--------|--------|
| 1.197 | -5.270 | -27250 | 30260 | 37210 |
| 1.202 | -2.237 | -28100 | 34610 | 39460 |
| 1.201 | 2.298 | -29250 | 36080 | 40380 |
| 1.199 | 4.915 | -31040 | 37460 | 41230 |
| 1.198 | 8.078 | -33090 | 37820 | 41670 |
| 1.200 | 10.119 | -34000 | 38860 | 42300 |
| 1.200 | 12.122 | -34180 | 39140 | 42530 |
| 1.199 | 15.136 | -34340 | 38800 | 42420 |
| 1.200 | 17.129 | -35540 | 38610 | 42650 |
| 1.198 | 19.063 | -35690 | 37930 | 42420 |
| | GRADIENT | - .00571 | .00553 | .00343 |

RUN NO. 867/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|-------|----------|----------|--------|--------|
| 1.295 | -5.259 | -26800 | 34390 | 40390 |
| 1.300 | -2.251 | -28080 | 37270 | 42370 |
| 1.297 | 2.278 | -29680 | 38890 | 42230 |
| 1.297 | 4.931 | -31490 | 41130 | 42720 |
| 1.295 | 8.092 | -33840 | 41250 | 42450 |
| 1.295 | 10.108 | -34240 | 41780 | 42710 |
| 1.294 | 12.148 | -34560 | 42120 | 42910 |
| 1.294 | 15.151 | -34850 | 42210 | 43700 |
| 1.293 | 17.114 | -34250 | 41960 | 44140 |
| 1.291 | 19.048 | -33420 | 41390 | 44290 |
| | GRADIENT | - .00658 | .00746 | .00068 |

RUN NO. 866/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|-------|----------|----------|--------|---------|
| 1.402 | -5.275 | -25630 | 35750 | 45790 |
| 1.407 | -2.240 | -27490 | 40890 | 46400 |
| 1.404 | 2.257 | -29000 | 42490 | 46910 |
| 1.402 | 4.877 | -30510 | 45740 | 46340 |
| 1.401 | 8.079 | -31730 | 46070 | 46790 |
| 1.402 | 10.059 | -32240 | 47050 | 47470 |
| 1.403 | 12.109 | -32370 | 47740 | 47810 |
| 1.401 | 15.094 | -32690 | 46880 | 47390 |
| 1.397 | 17.103 | -32500 | 45980 | 48190 |
| 1.392 | 19.032 | -32430 | 45800 | 48480 |
| | GRADIENT | - .00590 | .00950 | -.00013 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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(E2F0A0) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
AILRON = .000 BOFLAP = .000
SPDBRK = 55.000 RUDDER = .000
RN/L = 5.000

RUN NO. 590/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .598 | -6.073 | -23480 | .20250 | -.05370 |
| .598 | -1.986 | -22920 | .12850 | .02880 |
| .598 | -.941 | -22770 | .10740 | .05160 |
| .597 | .105 | -22810 | .08740 | .07340 |
| .598 | .614 | -23180 | .08110 | .08140 |
| .598 | 1.132 | -23030 | .07060 | .09250 |
| .598 | 2.170 | -22670 | .04840 | .11260 |
| .597 | 3.195 | -23180 | .02590 | .13080 |
| .597 | 4.225 | -23550 | .00450 | .14760 |
| .597 | 6.258 | -23290 | -.03360 | .19540 |
| .597 | 8.260 | -23970 | -.07440 | .23060 |
| | GRADIENT | -.00085 | -.01986 | .01912 |

RUN NO. 575/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .798 | -6.247 | -25470 | .25590 | -.01840 |
| .798 | -2.133 | -25190 | .17330 | .06610 |
| .798 | -1.080 | -25470 | .15280 | .08880 |
| .799 | .001 | -25830 | .13220 | .10990 |
| .799 | .521 | -25420 | .12240 | .12350 |
| .799 | 1.046 | -25640 | .11010 | .13220 |
| .798 | 2.109 | -25270 | .09050 | .15490 |
| .799 | 3.155 | -25280 | .06840 | .17930 |
| .798 | 4.199 | -26220 | .04490 | .19740 |
| .797 | 6.268 | -25740 | .01070 | .25110 |
| .796 | 8.330 | -26420 | -.02850 | .28780 |
| | GRADIENT | -.00074 | -.02016 | .02093 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(E2F0A0) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 55.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 572/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .899 | -6.253 | -.26810 | .30420 | .02610 |
| .901 | -2.129 | -.28110 | .22380 | .11740 |
| .900 | -1.070 | -.29270 | .20190 | .13530 |
| .899 | .015 | -.28930 | .18230 | .16060 |
| .900 | .537 | -.29980 | .15900 | .16810 |
| .899 | 1.064 | -.29970 | .16000 | .18020 |
| .898 | 2.132 | -.31860 | .13680 | .19890 |
| .900 | 3.184 | -.31590 | .11840 | .22550 |
| .898 | 4.228 | -.32530 | .09590 | .24680 |
| .896 | 6.307 | -.34920 | .05460 | .29380 |
| .896 | 8.372 | -.37030 | .01610 | .33250 |
| | GRADIENT | -.00701 | -.02006 | .02046 |

RUN NO. 553/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .951 | -6.277 | -.32170 | .34450 | .06570 |
| .952 | -2.137 | -.35270 | .26560 | .15520 |
| .950 | -1.078 | -.36600 | .24260 | .17450 |
| .949 | .005 | -.37410 | .21830 | .19520 |
| .951 | .531 | -.37630 | .21020 | .20670 |
| .950 | 1.053 | -.37680 | .19930 | .21770 |
| .948 | 2.125 | -.38460 | .17680 | .23810 |
| .948 | 3.176 | -.38860 | .15520 | .25970 |
| .947 | 4.223 | -.39230 | .13450 | .28180 |
| .946 | 6.307 | -.39820 | .09860 | .33190 |
| .945 | 8.372 | -.41230 | .06130 | .36880 |
| | GRADIENT | -.00584 | -.02053 | .01997 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1871

(E2F0A0) (06 MAR 80)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

ALPHA =
AILRON =
SPBRK =
RN/L =

ELEVON = .000
BOFLAP = .000
RUDDER = .000
55.000
5.000

PARAMETRIC DATA

RUN NO. 542/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|--------|
| 1.201 | -6.263 | -.32050 | .49980 | .26260 |
| 1.203 | -2.120 | -.29620 | .42290 | .31690 |
| 1.202 | -1.069 | -.29340 | .40440 | .33460 |
| 1.202 | .012 | -.29430 | .38650 | .35550 |
| 1.201 | .533 | -.29520 | .37690 | .36420 |
| 1.202 | 1.055 | -.29720 | .36810 | .37370 |
| 1.201 | 2.123 | -.29530 | .34850 | .39360 |
| 1.202 | 3.171 | -.29300 | .33350 | .41960 |
| 1.199 | 4.217 | -.30460 | .31120 | .43140 |
| 1.198 | 6.304 | -.30620 | .28680 | .47780 |
| 1.198 | 8.377 | -.26700 | .26170 | .52550 |
| | GRADIENT | -.00086 | -.01739 | .01865 |

AMES 118-1-11 OAI45A 01

(E2F0A1) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

ALPHA =
AILRON =
SPBRK =
RN/L =

ELEVON = .000
BOFLAP = .000
RUDDER = .000
55.000
5.000

PARAMETRIC DATA

RUN NO. 589/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP235 | CP228 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .598 | -6.032 | -.23590 | -.23690 | -.23640 | -.24790 | -.24790 | -.26000 | -.27320 | .30280 | -.01540 |
| .598 | -1.942 | -.22860 | -.22980 | -.23080 | -.24540 | -.24540 | -.25790 | -.27050 | .20510 | .08620 |
| .598 | -.902 | -.23030 | -.22810 | -.23150 | -.25120 | -.25120 | -.25830 | -.27210 | .17860 | .10770 |
| .598 | .025 | -.22730 | -.22930 | -.22720 | -.25260 | -.25260 | -.25710 | -.26630 | .15670 | .13090 |
| .598 | .512 | -.23310 | -.22860 | -.22910 | -.24850 | -.24850 | -.25820 | -.27530 | .14830 | .14590 |
| .598 | 1.026 | -.23210 | -.23120 | -.22640 | -.24720 | -.24720 | -.25810 | -.27570 | .13350 | .15870 |
| .598 | 2.093 | -.23690 | -.23020 | -.23310 | -.25240 | -.25240 | -.26090 | -.27200 | .10820 | .18060 |
| .598 | 3.136 | -.23660 | -.23070 | -.23560 | -.25330 | -.25330 | -.26040 | -.27200 | .08270 | .20650 |
| .597 | 4.168 | -.24390 | -.24090 | -.24510 | -.25420 | -.25420 | -.26630 | -.28000 | .05660 | .23040 |
| .597 | 6.224 | -.24390 | -.24080 | -.25560 | -.24990 | -.24990 | -.26560 | -.28290 | .01190 | .28540 |
| | GRADIENT | -.00237 | -.00143 | -.00208 | -.00110 | -.00110 | -.00119 | -.00115 | -.02414 | .02383 |

AMES 118-1-11 0A145A 01

(E2F0A1) (08 JUL 77)

REFERENCE DATA

| | | | | | |
|---|-----------|--------|---|-----------|--------|
| = | 2690.0000 | SO.FT. | = | 1076.5800 | IN. X0 |
| = | 474.8100 | INCHES | = | .0000 | IN. Y0 |
| = | 936.6800 | INCHES | = | 375.0000 | IN. Z0 |
| = | .0500 | SCALE | | | |

ALPHA
AILRON
SPDBRK
RN/L

| | | |
|--------|---|------|
| ELEVON | = | .000 |
| BDFLAP | = | .000 |
| RUDDER | = | .000 |

PARAMETRIC DATA

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 |
|------|----------|----------|----------|----------|----------|--------|--------|----------|
| .800 | -6.051 | -23890 | -24420 | -24100 | -23890 | -26310 | -26310 | -267800 |
| .799 | -1.945 | -24350 | -24370 | -24330 | -24180 | -26840 | -26840 | -27620 |
| .799 | - .910 | -24040 | -23750 | -24130 | -24170 | -26370 | -26370 | -27660 |
| .798 | .036 | -24040 | -24630 | -24060 | -24330 | -27000 | -27000 | -28540 |
| .800 | .494 | -24260 | -24470 | -24220 | -23750 | -27190 | -27190 | -27380 |
| .800 | 1.018 | -23850 | -24190 | -24470 | -23910 | -26680 | -26680 | -27970 |
| .799 | 2.084 | -24260 | -23640 | -24200 | -24070 | -26170 | -26170 | -27550 |
| .800 | 3.124 | -24580 | -24400 | -24080 | -24110 | -27000 | -27000 | -27810 |
| .798 | 4.160 | -25700 | -24880 | -24950 | -24950 | -26700 | -26700 | -28110 |
| .797 | 6.239 | -26110 | -25620 | -25380 | -25400 | -27730 | -27730 | -28450 |
| | GRADIENT | - .00191 | - .00017 | - .00068 | - .00077 | .00009 | .00009 | - .00015 |

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| .902 | -6.116 | -25960 | -26120 | -25500 | -25890 | -30750 | -30750 | -31940 |
| .900 | -1.968 | -25170 | -26050 | -25080 | -25690 | -32660 | -32660 | -33630 |
| .900 | - | -26560 | -25620 | -26770 | -26100 | -33210 | -33210 | -34840 |
| .899 | .140 | -26610 | -26210 | -25640 | -26690 | -32300 | -32300 | -33120 |
| .899 | .628 | -26770 | -26440 | -25920 | -27300 | -32980 | -32980 | -33980 |
| .900 | 1.152 | -25790 | -26670 | -26040 | -26670 | -32850 | -32850 | -33040 |
| .899 | 2.206 | -27590 | -27760 | -27640 | -27280 | -32490 | -32490 | -33860 |
| .899 | 3.257 | -27900 | -27640 | -27690 | -28260 | -32960 | -32960 | -33530 |
| .899 | 4.297 | -28590 | -28370 | -29020 | -28390 | -33580 | -33580 | -34400 |
| .895 | 6.368 | -30800 | -31060 | -31050 | -31010 | -35050 | -35050 | -35950 |
| | GRADIENT | -00475 | -00433 | -00546 | -00437 | -00081 | -00081 | -00011 |

| MACH | BETA | RUN NO. | 556/ 0 | RN/L = | 4.96 | GRADIENT INTERVAL = | -5.00/ 5.00 | |
|------|----------|---------|--------|--------|--------|---------------------|-------------|--------|
| | | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 |
| .950 | -6.140 | -20850 | -28750 | -28980 | -29440 | -34920 | -34920 | -35630 |
| .950 | -1.978 | -27710 | -28220 | -28010 | -27430 | -33490 | -33490 | -34150 |
| .950 | - .928 | -27950 | -28090 | -28350 | -28240 | -33540 | -33540 | -34560 |
| .950 | .950 | -28430 | -28140 | -27960 | -29090 | -34190 | -34190 | -35050 |
| .950 | 1.136 | -28260 | -28590 | -28870 | -28970 | -34510 | -34510 | -34690 |
| .949 | .624 | -28340 | -28750 | -28670 | -28590 | -34690 | -34690 | -35070 |
| .950 | 1.143 | -29030 | -29320 | -29640 | -29890 | -34910 | -34910 | -35970 |
| .948 | 2.200 | -30270 | -29980 | -30140 | -29430 | -35800 | -35800 | -36970 |
| .948 | 3.248 | -30660 | -30630 | -30810 | -30290 | -36670 | -36670 | -37940 |
| .948 | 4.289 | -33310 | -32180 | -32930 | -32180 | -39050 | -39050 | -40150 |
| .946 | 6.363 | -00489 | -00420 | -00466 | -00400 | -00505 | -00505 | -00558 |
| | GRADIENT | | | | | | | |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1873

AMES 118-1-11 OAI45A 01

(E2FOAI) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 55.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 552/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 1.101 | -6.116 | -34530 | -34570 | -34700 | -34540 | -35850 | -35850 | -36330 | -36660 | 53720 | 21630 |
| 1.099 | -1.968 | -34500 | -34730 | -34830 | -34830 | -35980 | -35980 | -36520 | -36990 | 44570 | 31110 |
| 1.100 | -.927 | -34550 | -34510 | -34310 | -34280 | -36010 | -36010 | -36610 | -37160 | 41900 | 33200 |
| 1.100 | .129 | -34780 | -34650 | -34490 | -34700 | -35200 | -35200 | -36110 | -36430 | 39910 | 36100 |
| 1.099 | .641 | -34800 | -34460 | -34680 | -34860 | -35090 | -35090 | -35290 | -35610 | 38470 | 37160 |
| 1.100 | 1.146 | -34300 | -34640 | -34500 | -34620 | -34430 | -34430 | -35110 | -35170 | 38840 | 38840 |
| 1.098 | 2.189 | -34710 | -34950 | -34810 | -34800 | -34910 | -34910 | -35080 | -35910 | 35120 | 41010 |
| 1.098 | 3.230 | -34880 | -34600 | -35060 | -34840 | -34710 | -34710 | -35590 | -35970 | 33270 | 43850 |
| 1.098 | 4.266 | -34890 | -34980 | -35000 | -35750 | -35890 | -35890 | -36100 | -36630 | 30770 | 45630 |
| 1.098 | 6.339 | -34440 | -34730 | -34740 | -34670 | -35260 | -35260 | -35990 | -36400 | 27160 | 51220 |
| | GRADIENT | -00058 | -00046 | -00080 | -00135 | -00105 | -00105 | -00140 | -00125 | -02178 | 02402 |

RUN NO. 538/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 1.201 | -6.123 | -31580 | -31570 | -31160 | -31450 | -31740 | -31740 | -31830 | -32010 | 55010 | 26050 |
| 1.201 | -1.957 | -30900 | -30960 | -31260 | -31090 | -31350 | -31350 | -31430 | -31630 | 45930 | 31610 |
| 1.199 | -.921 | -32060 | -31710 | -31810 | -31770 | -32140 | -32140 | -32200 | -33260 | 43800 | 33680 |
| 1.200 | .030 | -31830 | -31710 | -31590 | -31660 | -32450 | -32450 | -32600 | -33080 | 41670 | 36040 |
| 1.200 | .691 | -31860 | -31690 | -31640 | -31770 | -32140 | -32140 | -32860 | -32840 | 40720 | 37760 |
| 1.201 | 1.158 | -31440 | -31630 | -31480 | -31480 | -31900 | -31900 | -32500 | -32690 | 39820 | 38980 |
| 1.200 | 2.191 | -31510 | -31640 | -31660 | -31600 | -31670 | -31670 | -32440 | -32740 | 38240 | 41680 |
| 1.200 | 3.239 | -31850 | -31700 | -31690 | -31630 | -32150 | -32150 | -32280 | -32920 | 35930 | 44090 |
| 1.201 | 4.275 | -31680 | -31930 | -32060 | -31620 | -31910 | -31910 | -32890 | -32990 | 34040 | 46690 |
| 1.197 | 6.353 | -31490 | -31710 | -31770 | -31970 | -32030 | -32030 | -32350 | -32830 | 30640 | 51810 |
| | GRADIENT | -00050 | -00077 | -00076 | -00039 | -00027 | -00027 | -00075 | -00102 | -01878 | 02459 |

RUN NO. 530/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 1.297 | -6.081 | -32310 | -32360 | -32330 | -32320 | -33120 | -33120 | -33340 | -33650 | 55890 | 31970 |
| 1.301 | -1.964 | -31510 | -31610 | -31590 | -31530 | -32510 | -32510 | -32900 | -33280 | 48290 | 36540 |
| 1.299 | -.920 | -31480 | -31440 | -31740 | -31370 | -32470 | -32470 | -32680 | -33000 | 46270 | 37360 |
| 1.298 | .151 | -31990 | -31920 | -31960 | -31960 | -32470 | -32470 | -32870 | -33050 | 44530 | 38700 |
| 1.298 | .627 | -31510 | -31770 | -31530 | -31860 | -32160 | -32160 | -32800 | -33250 | 43590 | 39630 |
| 1.298 | 1.154 | -31390 | -31690 | -31510 | -31630 | -32070 | -32070 | -32350 | -32710 | 42730 | 40750 |
| 1.299 | 2.207 | -31570 | -31520 | -31810 | -31730 | -32120 | -32120 | -32470 | -32880 | 40830 | 43060 |
| 1.297 | 3.231 | -31780 | -32030 | -31720 | -32040 | -32430 | -32430 | -32400 | -32830 | 39420 | 45150 |
| 1.296 | 4.303 | -31740 | -31970 | -31800 | -31690 | -31770 | -31770 | -32050 | -32580 | 38370 | 47330 |
| 1.294 | 6.377 | -31570 | -31310 | -31280 | -31150 | -30970 | -30970 | -31520 | -32260 | 35210 | 52880 |
| | GRADIENT | -00032 | -00064 | -00018 | -00051 | -00088 | -00088 | -00123 | -00094 | -01611 | 01800 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(E2FOA1) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 55.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 518/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| 1.403 | -6.119 | -29860 | -29980 | -29990 | -30000 | -30200 | -30200 | -30460 | -30560 | .57330 | .35360 |
| 1.408 | -1.976 | -30610 | -30420 | -30540 | -30510 | -30980 | -30980 | -31050 | -31330 | .49530 | .41960 |
| 1.406 | -.924 | -30360 | -30380 | -30440 | -30390 | -30880 | -30880 | -30960 | -31210 | .48350 | .42970 |
| 1.406 | .150 | -30510 | -30480 | -30620 | -30520 | -30640 | -30640 | -30640 | -31180 | .48110 | .44430 |
| 1.404 | .629 | -30370 | -30440 | -30370 | -30610 | -30690 | -30690 | -30900 | -31170 | .47460 | .44580 |
| 1.403 | 1.153 | -30300 | -30360 | -30390 | -30430 | -30580 | -30580 | -30690 | -30960 | .46670 | .44700 |
| 1.404 | 2.214 | -30060 | -30230 | -30070 | -30370 | -30310 | -30310 | -30270 | -30550 | .44880 | .45820 |
| 1.402 | 3.267 | -30200 | -30430 | -30270 | -30130 | -30190 | -30190 | -30480 | -30810 | .42750 | .47690 |
| 1.402 | 4.313 | -29970 | -29820 | -29880 | -30120 | -29890 | -29890 | -30290 | -30550 | .40460 | .49800 |
| 1.400 | 6.402 | -29220 | -29400 | -29280 | -29400 | -29130 | -29130 | -29040 | -29410 | .34270 | .53890 |
| | GRADIENT | .00092 | .00068 | .00087 | .00066 | .00172 | .00172 | .00133 | .00131 | -.01434 | .01174 |

AMES 118-1-11 OAI45A 01

(E2FOA2) (05 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 55.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 591/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .598 | -6.045 | -.27440 | .35090 | -.01570 |
| .597 | -1.990 | -.26640 | .25220 | .09780 |
| .597 | -.972 | -.27360 | .21620 | .12200 |
| .597 | .059 | -.26790 | .18900 | .15780 |
| .597 | .557 | -.27430 | .17230 | .16810 |
| .597 | 1.059 | -.27520 | .15760 | .18200 |
| .598 | 2.094 | -.27430 | .13090 | .21340 |
| .597 | 3.122 | -.28210 | .09570 | .24030 |
| .596 | 4.163 | -.28440 | .07390 | .26890 |
| .598 | 6.231 | -.28770 | .01270 | .32690 |
| .598 | 8.292 | -.28990 | -.04360 | .38530 |
| | GRADIENT | -.00268 | -.02904 | .02809 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1875

AMES 118-1-11 0A145A 01

(E2F0A2) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 55.000 RUDDER = .000
RN/L = 5.000

RUN NO. 576/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .799 | -6.138 | -.28620 | .40390 | .01720 |
| .798 | -1.992 | -.29940 | .29690 | .13260 |
| .799 | -.938 | -.30470 | .26520 | .16070 |
| .797 | .130 | -.30180 | .23350 | .19490 |
| .799 | .650 | -.30380 | .22030 | .21170 |
| .798 | 1.185 | -.30290 | .20510 | .22790 |
| .799 | 2.240 | -.30900 | .17750 | .25720 |
| .799 | 3.295 | -.30880 | .15030 | .29000 |
| .797 | 4.335 | -.32150 | .12060 | .31520 |
| .797 | 6.396 | -.31830 | .06490 | .37890 |
| .799 | 8.425 | -.31800 | .00760 | .43680 |
| | GRADIENT | -.00278 | -.02755 | .02937 |

RUN NO. 573/ 0 RN/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .900 | -6.119 | -.33800 | .43930 | .05690 |
| .900 | -2.024 | -.34570 | .33260 | .17350 |
| .900 | -.991 | -.34730 | .30750 | .20400 |
| .900 | .053 | -.34870 | .28010 | .23470 |
| .899 | .557 | -.35590 | .26340 | .24840 |
| .900 | 1.065 | -.35240 | .25050 | .26510 |
| .899 | 2.117 | -.36190 | .21920 | .29230 |
| .899 | 3.159 | -.35880 | .19660 | .32540 |
| .898 | 4.216 | -.37050 | .16430 | .35130 |
| .899 | 6.301 | -.36730 | .11330 | .41530 |
| .899 | 8.380 | -.37480 | .06050 | .47460 |
| | GRADIENT | -.00376 | -.02707 | .02867 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

(E2F0A2) (06 MAR 80)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 10.000
A1LRON = .000
SPOBRK = 55.000
RN/L = 5.000

ELEVON = .000
BDFLAP = .000
RUDDER = .000

RUN NO. 554/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .950 | -6.149 | -.34830 | .47120 | .09280 |
| .950 | -2.044 | -.36200 | .36580 | .20410 |
| .950 | -1.007 | -.35980 | .34190 | .23450 |
| .949 | .040 | -.36400 | .31020 | .25520 |
| .948 | .547 | -.38110 | .29290 | .27450 |
| .949 | 1.059 | -.37440 | .28060 | .29180 |
| .949 | 2.115 | -.37090 | .25550 | .32450 |
| .948 | 3.161 | -.37220 | .22630 | .35300 |
| .948 | 4.219 | -.37500 | .19920 | .38270 |
| .948 | 6.313 | -.38060 | .14620 | .44150 |
| .949 | 8.392 | -.39250 | .09140 | .49940 |
| | GRADIENT | -.00220 | -.02684 | .02856 |

RUN NO. 547/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|--------|
| 1.202 | -6.144 | -.32270 | .58850 | .26600 |
| 1.203 | -2.044 | -.32120 | .48760 | .31570 |
| 1.199 | -1.008 | -.32230 | .46230 | .34140 |
| 1.199 | .036 | -.32260 | .44020 | .37050 |
| 1.200 | .541 | -.32030 | .42820 | .38610 |
| 1.200 | 1.063 | -.31980 | .41490 | .40200 |
| 1.199 | 2.122 | -.32770 | .38850 | .42770 |
| 1.197 | 3.170 | -.32710 | .36570 | .45830 |
| 1.198 | 4.227 | -.32440 | .34990 | .48990 |
| 1.197 | 6.316 | -.32660 | .31450 | .54590 |
| 1.197 | 8.389 | -.32480 | .29160 | .60440 |
| | GRADIENT | -.00088 | -.02249 | .02780 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1877

(E2F0A2) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPOBRK = 55.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 526/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|--------|
| 1.294 | -6.180 | -.32970 | .60270 | .32100 |
| 1.300 | -2.018 | -.33920 | .50730 | .36670 |
| 1.300 | -.940 | -.33920 | .48760 | .37790 |
| 1.298 | .156 | -.34300 | .46340 | .39340 |
| 1.296 | .684 | -.34730 | .45000 | .39950 |
| 1.297 | 1.235 | -.34420 | .44210 | .41200 |
| 1.296 | 2.303 | -.34260 | .42040 | .43630 |
| 1.297 | 3.367 | -.34110 | .40540 | .46210 |
| 1.297 | 4.410 | -.33660 | .39820 | .49150 |
| 1.294 | 6.476 | -.32150 | .37150 | .55230 |
| 1.292 | 8.495 | -.32300 | .32100 | .61090 |
| | GRADIENT | .00023 | -.01773 | .01962 |

RUN NO. 525/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|--------|
| 1.401 | -6.201 | -.30690 | .62600 | .35080 |
| 1.406 | -2.021 | -.31840 | .53290 | .43190 |
| 1.406 | -.942 | -.31850 | .51200 | .44700 |
| 1.406 | .152 | -.32180 | .49780 | .46150 |
| 1.405 | .683 | -.32210 | .49340 | .46690 |
| 1.403 | 1.232 | -.32300 | .48600 | .46760 |
| 1.402 | 2.299 | -.32280 | .47310 | .47600 |
| 1.402 | 3.369 | -.32230 | .45320 | .49020 |
| 1.402 | 4.416 | -.31880 | .43630 | .51280 |
| 1.400 | 6.494 | -.31030 | .38070 | .56740 |
| 1.398 | 8.517 | -.28640 | .29910 | .62320 |
| | GRADIENT | -.00031 | -.01438 | .01137 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1878

AMES 118-1-11 OAI45A 01

(E2FOA3) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 15.000
AILRON = .000
SPDBRK = 55.000
RN/L = 5.000
ELEVON = .000
BDFLAP = .000
RUDDER = .000

RUN NO. 592/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .598 | -6.090 | -.30830 | .35030 | -.06640 |
| .595 | -1.994 | -.33120 | .22560 | .05230 |
| .598 | -.957 | -.31870 | .19910 | .09870 |
| .598 | .090 | -.32350 | .16490 | .13000 |
| .598 | .598 | -.32620 | .14320 | .14520 |
| .598 | 1.108 | -.32420 | .13270 | .16120 |
| .598 | 2.134 | -.31370 | .10330 | .20030 |
| .598 | 3.171 | -.32330 | .06790 | .22910 |
| .598 | 4.216 | -.31680 | .03470 | .26440 |
| .598 | 6.276 | -.31360 | -.03670 | .33050 |
| .598 | 8.344 | -.31360 | -.08060 | .40080 |
| | GRADIENT | .00157 | -.03092 | .03344 |

RUN NO. 574/ 0 RN/L = 4.91 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .902 | -6.159 | -.38660 | .46050 | .03360 |
| .899 | -2.028 | -.40970 | .33550 | .16150 |
| .900 | -.982 | -.41850 | .30350 | .19380 |
| .900 | .071 | -.41350 | .27720 | .23240 |
| .900 | .586 | -.42100 | .26010 | .24510 |
| .900 | 1.102 | -.42560 | .24280 | .26020 |
| .900 | 2.140 | -.42580 | .21310 | .29610 |
| .899 | 3.188 | -.42970 | .18420 | .32780 |
| .900 | 4.242 | -.43580 | .15660 | .35960 |
| .899 | 6.326 | -.43800 | .09150 | .42580 |
| .899 | 8.412 | -.44440 | .02600 | .49290 |
| | GRADIENT | -.00386 | -.02874 | .03170 |

0A115 TABULATED FORCE DATA

DATE 10 MAR 80

(E2F0A3) (06 MAR 80)

ANES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 15.000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPOBRK = 55.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 555/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .952 | -6.184 | -.40160 | .48970 | .06510 |
| .951 | -2.046 | -.40580 | .37020 | .19870 |
| .948 | -.996 | -.41980 | .33670 | .22620 |
| .950 | .059 | -.42310 | .30860 | .26030 |
| .947 | .575 | -.42820 | .29070 | .27350 |
| .948 | 1.094 | -.43160 | .27660 | .29000 |
| .949 | 2.134 | -.42910 | .24870 | .32530 |
| .947 | 3.182 | -.43620 | .21570 | .35500 |
| .948 | 4.237 | -.42930 | .19000 | .39130 |
| .947 | 6.325 | -.44330 | .12570 | .45220 |
| .948 | 8.412 | -.44740 | .07230 | .52170 |
| | GRADIENT | -.00366 | -.02874 | .03079 |

RUN NO. 546/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|--------|
| 1.201 | -6.184 | -.32740 | .61000 | .26170 |
| 1.201 | -2.055 | -.33070 | .49550 | .31320 |
| 1.199 | -1.005 | -.32830 | .46870 | .34020 |
| 1.200 | .050 | -.32980 | .44190 | .36960 |
| 1.200 | .569 | -.33170 | .42950 | .38400 |
| 1.200 | 1.096 | -.32990 | .42060 | .39880 |
| 1.200 | 2.141 | -.32880 | .39090 | .43390 |
| 1.200 | 3.186 | -.32890 | .37080 | .46590 |
| 1.199 | 4.240 | -.33330 | .34870 | .49910 |
| 1.198 | 6.333 | -.33480 | .31150 | .56220 |
| 1.198 | 8.412 | -.32900 | .28670 | .62330 |
| | GRADIENT | -.00024 | -.02337 | .02980 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1880

AMES 118-1-11 OAI45A 01

(E2FOA3) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 15.000 ELEVON = .000
 ATLRON = .000 BOFLAP = .000
 SPOBRK = 55.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 527/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|--------|---------|--------|
| 1.293 | -6.212 | -33430 | .62430 | .33140 |
| 1.296 | -2.058 | -35110 | .51950 | .37130 |
| 1.297 | -1.003 | -34890 | .49600 | .38220 |
| 1.296 | .066 | -34990 | .47460 | .39560 |
| 1.296 | .578 | -34940 | .46420 | .40450 |
| 1.296 | 1.106 | -35030 | .45550 | .41750 |
| 1.295 | 2.155 | -34590 | .43040 | .44590 |
| 1.295 | 3.205 | -34770 | .41030 | .47360 |
| 1.295 | 4.272 | -34220 | .39830 | .50630 |
| 1.293 | 6.366 | -33220 | .37250 | .57010 |
| 1.294 | 8.457 | -32510 | .32900 | .63620 |
| | GRADIENT | .00113 | -.01962 | .02180 |

RUN NO. 524/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|--------|---------|--------|
| 1.396 | -6.145 | -30940 | .64620 | .35370 |
| 1.399 | -1.957 | -31920 | .55030 | .44100 |
| 1.398 | -.875 | -32090 | .52800 | .44830 |
| 1.398 | .201 | -32150 | .50940 | .45430 |
| 1.397 | .722 | -32160 | .50250 | .45800 |
| 1.396 | 1.267 | -32180 | .49780 | .46400 |
| 1.396 | 2.347 | -31990 | .47880 | .48240 |
| 1.396 | 3.413 | -31880 | .46660 | .50740 |
| 1.398 | 4.461 | -31520 | .44890 | .53580 |
| 1.393 | 6.552 | -30660 | .39370 | .59530 |
| 1.394 | 8.566 | -29340 | .28900 | .65540 |
| | GRADIENT | .00062 | -.01522 | .01450 |

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(E2F0A4) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 BETA = .000
 ELEVON = .000 AILRON = .000
 BOFLAP = .000 SPDBRK = 55.000
 RN/L = 5.000

RUN NO. 593/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP240 | CP12 | CP13 |
|------|----------|---------|--------|---------|
| .598 | -14.970 | -.23510 | .08530 | .06900 |
| .598 | -10.771 | -.23070 | .08530 | .07050 |
| .598 | -4.924 | -.23130 | .08500 | .06960 |
| .598 | -2.442 | -.23030 | .08480 | .06960 |
| .598 | -.123 | -.23040 | .08450 | .07030 |
| .598 | 2.479 | -.23060 | .08550 | .06890 |
| .598 | 4.996 | -.23040 | .08480 | .06940 |
| .598 | 10.051 | -.22750 | .08600 | .07140 |
| .598 | 15.022 | -.22790 | .08740 | .06940 |
| .598 | 18.116 | -.22650 | .08530 | .07170 |
| .598 | 22.658 | -.23240 | .08920 | .06940 |
| | GRADIENT | .00006 | .00001 | -.00005 |

RUN NO. 577/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP240 | CP12 | CP13 |
|------|----------|---------|--------|--------|
| .798 | -14.940 | -.25400 | .13570 | .11620 |
| .799 | -10.709 | -.25550 | .13470 | .11330 |
| .799 | -4.961 | -.25490 | .13500 | .11390 |
| .799 | -2.459 | -.25800 | .13590 | .11270 |
| .800 | -.103 | -.25370 | .13720 | .11440 |
| .800 | 2.505 | -.25290 | .13650 | .11470 |
| .799 | 4.996 | -.25220 | .13620 | .11530 |
| .799 | 10.027 | -.25350 | .13480 | .11320 |
| .800 | 14.996 | -.25190 | .13830 | .11440 |
| .799 | 18.107 | -.24720 | .13790 | .11750 |
| .798 | 22.818 | -.26060 | .13510 | .10980 |
| | GRADIENT | .00042 | .00012 | .00019 |

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0A145 TABULATED FORCE DATA

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(E2F0A4) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.8800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = .000 BETA = .000
ELEVON = .000 AILRON = .000
BDFLAP = .000 SPOBRK = 55.000
RN/L = 5.000

RUN NO. 571/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .900 | -14.970 | -30340 | .18140 | .15970 |
| .901 | -10.754 | 7.57420 | .47840 | .47120 |
| .901 | -4.947 | -29390 | .18320 | .16130 |
| .900 | -2.418 | 7.86140 | .62460 | .62310 |
| .901 | -.089 | -29530 | .18230 | .16020 |
| .899 | 2.513 | -29640 | .18060 | .15720 |
| .900 | 5.014 | -29130 | .18220 | .15920 |
| .900 | 10.011 | -28990 | .18110 | .15820 |
| .900 | 15.014 | -28360 | .18290 | .16000 |
| .899 | 18.143 | -28010 | .18110 | .16030 |
| .900 | 19.608 | -28540 | .18340 | .15920 |
| | GRADIENT | -31625 | -.01745 | -.01843 |

RUN NO. 558/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP240 | CP12 | CP13 |
|------|----------|--------|--------|---------|
| .951 | -14.970 | -37480 | .21980 | .19750 |
| .952 | -10.762 | -37220 | .22140 | .19840 |
| .951 | -4.961 | -37320 | .21970 | .19730 |
| .951 | -2.426 | -37570 | .21830 | .19560 |
| .950 | -.096 | -37360 | .21880 | .19680 |
| .951 | 2.488 | -37210 | .22010 | .19680 |
| .951 | 5.024 | -37700 | .21910 | .19580 |
| .951 | 10.027 | -37390 | .22090 | .19660 |
| .951 | 15.022 | -36800 | .22160 | .19860 |
| .950 | 18.125 | -36930 | .21910 | .19620 |
| .951 | 22.771 | -36430 | .22030 | .19660 |
| | GRADIENT | .00022 | .00007 | -.00001 |

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(E2FOA4) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = .000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 AILRON = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO BDFLAP = .000 SPDBRK = 55.000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 543/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00
 MACH RUDDER CP240 CP12 CP13
 1.201 -14.976 -29790 -38390 -35360
 1.203 -10.745 -29850 -38590 -35520
 1.201 -4.939 -29730 -38520 -35410
 1.201 -2.434 -29470 -38440 -35430
 1.201 -1.16 -29360 -38540 -35490
 1.202 2.531 -30000 -38540 -35390
 1.201 5.014 -29920 -38440 -35420
 1.201 10.035 -29750 -38520 -35430
 1.201 15.031 -29100 -38520 -35410
 1.200 18.125 -29380 -38240 -35340
 1.201 22.649 -29340 -38490 -35410
 GRADIENT -1.00030 -1.00006 -1.00000

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(E2FOA5) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = .000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 AILRON = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO BDFLAP = .000 SPDBRK = 55.000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 584/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00
 MACH RUDDER CP225 CP228 CP231 CP234 CP237 CP240 CP243
 .597 -14.976 -23720 -23650 -23910 -23860 -25200 -26390
 .598 -10.762 -23570 -23240 -23190 -23220 -25100 -25920
 .599 -4.947 -23600 -23340 -23440 -22940 -25160 -26040
 .599 -2.434 -23360 -23000 -23290 -23290 -24850 -25950
 .599 -213 -23390 -23390 -23650 -23650 -24850 -26130
 .598 2.022 -23040 -23510 -23250 -23010 -25270 -25940
 .598 5.014 -23270 -23270 -23200 -23200 -24710 -25560
 .598 9.995 -23310 -23000 -23520 -23310 -24280 -25700
 .598 15.031 -23180 -23510 -23470 -23390 -24690 -25500
 .597 18.125 -23560 -23700 -23700 -23390 -25110 -25660
 .598 22.846 -23630 -23680 -23340 -23340 -24870 -25940
 GRADIENT .00075 -1.00037 -1.00032 -1.00027 -1.00024 -1.00024 -1.00005

CP246 CP12 CP13
 -27550 -15680 -13280
 -27750 -15770 -13370
 -27460 -15630 -13350
 -27320 -15740 -13670
 -27310 -15970 -13450
 -27310 -15500 -13130
 -27010 -15690 -13490
 -26980 -15900 -13730
 -27420 -15860 -13370
 -27370 -15900 -13090
 -27130 -15480 -13260
 -1.00020 -1.00006 -1.00036

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(E2FOAS) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

ALPHA =
 ELEVON =
 BDFLAP =
 RN/L =

PARAMETRIC DATA

5.000 BETA = .000
 .000 AILRON = .000
 .000 SPDBRK = 55.000
 5.000

| RUN NO. 583/ 0 | | RN/L = 4.96 | | GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | |
|----------------|----------|-------------|--------|---------------------------------|--------|--------|--------|---------|--------|--------|---------|
| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
| .800 | -14.935 | -24400 | -23750 | -24350 | -23750 | -26940 | -26940 | -27410 | -28500 | .20280 | .17160 |
| .799 | -10.762 | -24070 | -23560 | -23210 | -24260 | -26740 | -26740 | -27640 | -29050 | .20270 | .17150 |
| .799 | -4.954 | -23840 | -24610 | -24030 | -24090 | -26740 | -26740 | -28620 | -29520 | .19950 | .17020 |
| .800 | -2.426 | -24470 | -23980 | -24790 | -24210 | -26980 | -26980 | -27430 | -29070 | .20100 | .16930 |
| .798 | -1.103 | -24270 | -24240 | -24030 | -24160 | -27230 | -27230 | -28220 | -29460 | .19790 | .16700 |
| .800 | 2.513 | -23960 | -24280 | -24430 | -24370 | -26850 | -26850 | -28080 | -29110 | .20180 | .16910 |
| .799 | 4.986 | -24840 | -24160 | -24440 | -24140 | -26810 | -26810 | -26990 | -28210 | .19930 | .16950 |
| .801 | 10.027 | -24030 | -23630 | -23480 | -23220 | -26450 | -26450 | -27500 | -28040 | .20310 | .17130 |
| .799 | 15.005 | -24680 | -24400 | -24550 | -24760 | -26380 | -26380 | -27770 | -28800 | .20160 | .17110 |
| .800 | 18.107 | -23510 | -24210 | -24380 | -24260 | -26380 | -26380 | -27410 | -28380 | .20040 | .17120 |
| .799 | 22.846 | -24160 | -24950 | -24630 | -24310 | -26690 | -26690 | -27100 | -28580 | .20000 | .16970 |
| | GRADIENT | .00060 | .00024 | .00019 | .00011 | .00000 | .00000 | .00106 | .00105 | .00002 | -.00006 |
| RUN NO. 568/ 0 | | RN/L = 4.95 | | GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | |
| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
| .900 | -14.976 | -26280 | -26880 | -26660 | -26310 | -32730 | -32730 | -33040 | -33450 | .24170 | .20900 |
| .900 | -10.745 | -26720 | -26190 | -25760 | -25620 | -33000 | -33000 | -33500 | -33000 | .24170 | .20740 |
| .899 | -4.939 | -26840 | -26290 | -25620 | -26290 | -32090 | -32090 | -33150 | -33870 | .24390 | .20970 |
| .901 | -2.426 | -26410 | -26770 | -25620 | -26190 | -32230 | -32230 | -32210 | -32400 | .24520 | .21000 |
| .900 | .096 | -26160 | -25960 | -26270 | -26830 | -32790 | -32790 | -32930 | -33130 | .24030 | .20640 |
| .899 | 2.531 | -26150 | -26180 | -25890 | -25960 | -32080 | -32080 | -33070 | -33090 | .24370 | .20910 |
| .900 | 4.968 | -25810 | -26440 | -26670 | -25720 | -31800 | -31800 | -32920 | -33110 | .24510 | .20980 |
| .900 | 10.011 | -26270 | -25870 | -26590 | -26450 | -32070 | -32070 | -32890 | -33370 | .24250 | .20880 |
| .900 | 15.014 | -26390 | -25930 | -26010 | -26000 | -32110 | -32110 | -31990 | -32010 | .24380 | .20830 |
| .899 | 18.143 | -27110 | -26390 | -26300 | -26770 | -31490 | -31490 | -32260 | -32240 | .24300 | .20770 |
| .900 | 22.818 | -25920 | -26090 | -25990 | -26020 | -31800 | -31800 | -32560 | -32130 | .24380 | .20920 |
| | GRADIENT | .07093 | .00011 | -.00042 | .00057 | .00031 | .00031 | -.00016 | .00034 | .00004 | -.00002 |

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(E2FOAS) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = 55.000
 RN/L = 5.000

RUN NO. 562/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .951 | -14.965 | -28840 | -28660 | -28940 | -29200 | -34080 | -34080 | -35450 | -36170 | .27970 | .24520 |
| .951 | -10.727 | -28440 | -28380 | -28430 | -28260 | -34690 | -34690 | -35350 | -35880 | .27970 | .24320 |
| .950 | -4.947 | -28590 | -28770 | -28800 | -28310 | -34650 | -34650 | -35350 | -35240 | .27800 | .24210 |
| .949 | -2.459 | -28940 | -29320 | -29730 | -29970 | -34960 | -34960 | -35420 | -35830 | .27550 | .23830 |
| .950 | -.096 | -28320 | -28170 | -28290 | -28620 | -34770 | -34770 | -35590 | -35500 | .27780 | .24030 |
| .951 | 2.505 | -28280 | -28240 | -28640 | -27800 | -34170 | -34170 | -35380 | -35850 | .27860 | .24330 |
| .951 | 5.024 | -28290 | -28320 | -28680 | -27880 | -34040 | -34040 | -34920 | -36210 | .27800 | .24330 |
| .950 | 10.027 | -29030 | -28870 | -28720 | -28660 | -33920 | -33920 | -35070 | -35670 | .28080 | .24270 |
| .950 | 15.005 | -28600 | -28500 | -28290 | -28520 | -33970 | -33970 | -34740 | -35170 | .27770 | .24180 |
| .949 | 18.134 | -28430 | -29080 | -28990 | -29060 | -34080 | -34080 | -34910 | -34980 | .27700 | .24020 |
| .951 | 22.780 | -28880 | -28550 | -28330 | -28660 | -33490 | -33490 | -34470 | -35150 | .27880 | .24270 |
| | GRADIENT | .00062 | .00110 | .00076 | .00077 | .00067 | .00067 | .00010 | .00061 | .00017 | .00023 |

RUN NO. 541/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 1.201 | -14.976 | -31930 | -31530 | -31750 | -31510 | -32200 | -32200 | -32930 | -33370 | .41610 | .36150 |
| 1.202 | -10.745 | -32400 | -32080 | -32220 | -32490 | -32570 | -32570 | -32870 | -33260 | .41750 | .36130 |
| 1.202 | -4.954 | -31550 | -31780 | -31970 | -31520 | -32300 | -32300 | -32500 | -32910 | .41970 | .36250 |
| 1.201 | -2.434 | -31550 | -31580 | -31710 | -31930 | -32310 | -32310 | -32920 | -33060 | .41770 | .36130 |
| 1.201 | -.751 | -31750 | -31590 | -31780 | -31640 | -32150 | -32150 | -32280 | -33070 | .41800 | .36230 |
| 1.200 | -.103 | -31610 | -31870 | -31750 | -31360 | -32060 | -32060 | -32360 | -33160 | .41730 | .36120 |
| 1.202 | 2.513 | -31680 | -31230 | -31220 | -31640 | -32270 | -32270 | -32560 | -33120 | .41850 | .36130 |
| 1.201 | 5.005 | -32070 | -32460 | -32060 | -31740 | -32490 | -32490 | -32560 | -33320 | .41770 | .36170 |
| 1.202 | 10.027 | -31700 | -31950 | -31920 | -31730 | -32270 | -32270 | -32900 | -33460 | .41890 | .36160 |
| 1.202 | 15.014 | -31780 | -31670 | -32190 | -31650 | -32190 | -32190 | -32650 | -33400 | .41870 | .36230 |
| 1.201 | 18.134 | -31510 | -31670 | -31390 | -31740 | -32230 | -32230 | -32760 | -33120 | .41830 | .36130 |
| 1.201 | 22.677 | -31530 | -31400 | -31530 | -31500 | -31730 | -31730 | -32580 | -32940 | .41830 | .36240 |
| 1.200 | GRADIENT | .00020 | .00056 | .00088 | .00007 | .00014 | .00014 | .00018 | .00029 | -.00016 | -.00014 |

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(E2FOAS) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BOFLAP = .000 SPDBRK = 55.000
 RN/L = 5.000

RUN NO. 529/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|---------|---------|--------|----------|---------|---------|--------|----------|--------|--------|
| 1.305 | -14.752 | -32200 | -32340 | -32030 | -32190 | -32650 | -32650 | -33080 | -33500 | .44770 | .38930 |
| 1.301 | -10.691 | -32020 | -32210 | -32210 | -32320 | -32900 | -32900 | -33180 | -33600 | .44570 | .38620 |
| 1.299 | -5.359 | -31950 | -31930 | -31950 | -31840 | -32540 | -32540 | -32970 | -33470 | .44480 | .38550 |
| 1.299 | -2.751 | -31650 | -31770 | -31880 | -31800 | -32450 | -32450 | -32800 | -33000 | .44460 | .38560 |
| 1.297 | -1.141 | -32280 | -31910 | -32110 | -32100 | -32510 | -32510 | -33040 | -33360 | .44440 | .38510 |
| 1.299 | 2.333 | -31830 | -31870 | -31770 | -31920 | -32500 | -32500 | -32770 | -33030 | .44610 | .38570 |
| 1.299 | 4.802 | -32170 | -31920 | -31970 | -32200 | -32550 | -32550 | -32870 | -33470 | .44570 | .38620 |
| 1.299 | 9.756 | -32250 | -32420 | -32240 | -32250 | -32650 | -32650 | -33150 | -33480 | .44640 | .38690 |
| 1.299 | 14.582 | -32140 | -32450 | -32520 | -32330 | -32830 | -32830 | -33070 | -33730 | .44430 | .38570 |
| 1.299 | 18.061 | -32170 | -32340 | -32250 | -31990 | -32610 | -32610 | -33140 | -33560 | .44500 | .38550 |
| 1.298 | 22.399 | -32105 | -32340 | -32350 | -32340 | -32870 | -32870 | -33200 | -33470 | .44420 | .38410 |
| | GRADIENT | -0.0005 | -0.0016 | .00003 | -0.00041 | -0.0012 | -0.0012 | .00002 | -0.00043 | .00020 | .00009 |

RUN NO. 520/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|---------|--------|--------|--------|--------|--------|--------|----------|----------|----------|
| 1.403 | -14.736 | -30660 | -30710 | -30540 | -30760 | -30780 | -30780 | -30860 | -31210 | .47710 | .44080 |
| 1.403 | -10.727 | -30840 | -30860 | -30740 | -30840 | -30800 | -30800 | -31100 | -31280 | .47760 | .44120 |
| 1.405 | -5.388 | -30400 | -30500 | -30430 | -30540 | -30640 | -30640 | -30700 | -31050 | .47220 | .44190 |
| 1.404 | -2.784 | -30370 | -30530 | -30360 | -30490 | -30690 | -30690 | -30940 | -31000 | .46960 | .44140 |
| 1.404 | -1.23 | -30480 | -30580 | -30500 | -30390 | -30730 | -30730 | -30830 | -31180 | .48110 | .44270 |
| 1.404 | 2.357 | -30370 | -30410 | -30290 | -30290 | -30540 | -30540 | -30680 | -31000 | .46980 | .44160 |
| 1.404 | 4.792 | -30530 | -30440 | -30300 | -30510 | -30670 | -30670 | -30810 | -31090 | .47000 | .44170 |
| 1.404 | 9.724 | -30320 | -30410 | -30500 | -30410 | -30780 | -30780 | -30870 | -31150 | .46930 | .44050 |
| 1.404 | 14.556 | -30290 | -30310 | -30340 | -30310 | -30640 | -30640 | -30800 | -31080 | .46870 | .44090 |
| 1.404 | 18.116 | -30000 | -30230 | -30180 | -30210 | -30460 | -30460 | -30600 | -30780 | .46950 | .44130 |
| 1.403 | 22.335 | -30210 | -30250 | -30120 | -30160 | -30400 | -30400 | -30720 | -30960 | .47070 | .44260 |
| | GRADIENT | -0.0015 | .00017 | .00015 | .00002 | .00012 | .00012 | .00022 | -0.00044 | -0.00037 | -0.00001 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(E2FOA6) (06 MAR 80)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 10.000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 AILRON = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO BDFLAP = .000 SPDBRK = 55.000
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 594/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP240 | CP12 | CP13 |
|------|----------|--------|--------|---------|
| .599 | -14.993 | -27270 | .18650 | .15450 |
| .597 | -10.736 | -27320 | .18750 | .15430 |
| .597 | -4.932 | -27300 | .18950 | .15410 |
| .597 | -2.426 | -27750 | .18550 | .15070 |
| .597 | -1.03 | -26850 | .18970 | .15730 |
| .597 | 2.496 | -27010 | .18480 | .15570 |
| .597 | 4.996 | -27410 | .19010 | .15170 |
| .597 | 10.003 | -26930 | .18710 | .15550 |
| .597 | 15.005 | -27030 | .18960 | .15450 |
| .598 | 18.107 | -26470 | .18800 | .15750 |
| .598 | 22.780 | -26790 | .19100 | .15520 |
| | GRADIENT | .00020 | .00002 | -.00000 |

RUN NO. 578/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .798 | -14.976 | -30710 | .23540 | .19470 |
| .799 | -10.727 | -31190 | .23760 | .19020 |
| .798 | -4.932 | -30490 | .23440 | .19460 |
| .799 | -2.434 | -30830 | .23830 | .19230 |
| .799 | -.096 | -30240 | .23860 | .19580 |
| .799 | 2.496 | -31240 | .23100 | .18960 |
| .799 | 5.014 | -29900 | .23780 | .19650 |
| .797 | 10.027 | -31060 | .23090 | .18920 |
| .799 | 15.014 | -29820 | .23640 | .19600 |
| .798 | 18.107 | -30210 | .23440 | .19440 |
| .799 | 22.818 | -29740 | .23680 | .19680 |
| | GRADIENT | -.00070 | -.00041 | -.00048 |

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OAI45 TABULATED FORCE DATA

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(E2F0A6) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = 55.000
 RN/L = 5.000

RUN NO. 570/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP240 | CP12 | CP13 |
|------|----------|----------|--------|---------|
| .899 | -14.970 | -35310 | .27900 | .23450 |
| .901 | -10.745 | -34960 | .28260 | .23600 |
| .900 | -4.961 | 5.32610 | .59950 | .64630 |
| .902 | -2.418 | -34360 | .28270 | .23610 |
| .902 | -1.103 | -34460 | .28290 | .23770 |
| .899 | 2.522 | -35510 | .27870 | .23150 |
| .901 | 4.996 | 3.58110 | .63430 | .63090 |
| .900 | 10.011 | -34420 | .28000 | .23710 |
| .901 | 15.014 | 2.58330 | .52830 | .54620 |
| .901 | 18.107 | -34130 | .28220 | .23650 |
| .900 | 22.818 | 4.66940 | .44950 | .45210 |
| | GRADIENT | -1.13931 | .00275 | -.00130 |

RUN NO. 559/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP240 | CP12 | CP13 |
|------|----------|--------|---------|--------|
| .952 | -14.965 | -36640 | .31430 | .26800 |
| .950 | -10.727 | -37240 | .31030 | .26430 |
| .952 | -4.961 | -37240 | .31380 | .26560 |
| .951 | -2.451 | -37560 | .31240 | .26440 |
| .951 | -.089 | -36870 | .31280 | .26620 |
| .952 | 2.505 | -36490 | .31310 | .26800 |
| .951 | 5.005 | -36730 | .31170 | .26630 |
| .952 | 10.011 | -36580 | .31450 | .26720 |
| .951 | 15.005 | -36980 | .31110 | .26450 |
| .950 | 18.107 | -36420 | .31270 | .26530 |
| .950 | 22.825 | -36850 | .30940 | .26430 |
| | GRADIENT | .00118 | -.00007 | .00036 |

OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 10.000 BETA = .000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 AILRON = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO BDFLAP = .000 SPDBRK = 55.000
SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 544/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP240 | CP12 | CP13 |
|-------|----------|--------|--------|--------|
| 1.203 | -14.965 | -32480 | .44340 | .37030 |
| 1.203 | -10.754 | -32850 | .44270 | .37020 |
| 1.202 | -4.954 | -32370 | .44360 | .37130 |
| 1.202 | -2.451 | -32830 | .44330 | .37000 |
| 1.202 | -.096 | -32350 | .44370 | .37180 |
| 1.203 | 2.522 | -32320 | .44420 | .37290 |
| 1.201 | 5.024 | -32710 | .44120 | .36970 |
| 1.201 | 10.027 | -32810 | .44070 | .37040 |
| 1.201 | 15.005 | -32610 | .44080 | .37050 |
| 1.200 | 18.143 | -32800 | .43960 | .36930 |
| 1.202 | 22.677 | -32460 | .44170 | .37170 |
| | GRADIENT | .00025 | .00009 | .00027 |

RUN NO. 528/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|---------|
| 1.308 | -14.741 | -34350 | .46700 | .39830 |
| 1.307 | -10.655 | -34600 | .46560 | .39750 |
| 1.300 | -5.381 | -34500 | .46300 | .39310 |
| 1.300 | -2.792 | -34320 | .46350 | .39310 |
| 1.298 | -.089 | -34570 | .46180 | .39220 |
| 1.298 | 2.307 | -34600 | .46240 | .39160 |
| 1.298 | 4.848 | -34730 | .46130 | .39140 |
| 1.298 | 9.740 | -34600 | .46210 | .39330 |
| 1.298 | 14.538 | -34680 | .46050 | .39120 |
| 1.298 | 18.080 | -34300 | .46110 | .39250 |
| 1.298 | 22.445 | -34210 | .46050 | .39190 |
| | GRADIENT | -.00050 | -.00024 | -.00023 |

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OAI45 TABULATED FORCE DATA

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(E2F0A6) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. X0
 YMRP = .0000 IN. Y0
 ZMRP = 375.0000 IN. Z0

ALPHA = 10.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = 55.000
 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 521/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP240 | CP12 | CP13 |
|-------|----------|--------|---------|---------|
| 1.396 | -14.752 | -32080 | .49090 | .45220 |
| 1.398 | -10.682 | -32020 | .48900 | .45200 |
| 1.400 | -5.351 | -31890 | .48930 | .45350 |
| 1.402 | -2.751 | -31670 | .49160 | .45440 |
| 1.402 | -.141 | -31740 | .49090 | .45480 |
| 1.402 | 2.358 | -31740 | .48910 | .45320 |
| 1.402 | 4.820 | -31640 | .48860 | .45460 |
| 1.402 | 9.692 | -31730 | .48880 | .45400 |
| 1.402 | 14.521 | -31630 | .48930 | .45450 |
| 1.402 | 18.080 | -31590 | .48920 | .45400 |
| 1.402 | 22.427 | -31400 | .48990 | .45490 |
| | GRADIENT | .00003 | -.00043 | -.00004 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. X0
 YMRP = .0000 IN. Y0
 ZMRP = 375.0000 IN. Z0

ALPHA = 15.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = 55.000
 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 545/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP240 | CP12 | CP13 |
|-------|----------|--------|---------|---------|
| 1.196 | -14.960 | -33560 | .43890 | .36260 |
| 1.203 | -10.745 | -33060 | .44410 | .36900 |
| 1.202 | -4.932 | -33110 | .44480 | .36910 |
| 1.202 | -2.434 | -33160 | .44390 | .36770 |
| 1.201 | -.103 | -32950 | .44330 | .36870 |
| 1.199 | 2.522 | -33100 | .44180 | .36860 |
| 1.202 | 5.024 | -32730 | .44360 | .37150 |
| 1.200 | 10.019 | -33210 | .44260 | .37020 |
| 1.202 | 15.014 | -32710 | .44270 | .37100 |
| 1.198 | 18.116 | -33120 | .43960 | .36810 |
| 1.200 | 22.686 | -32960 | .44070 | .36950 |
| | GRADIENT | .00009 | -.00039 | -.00002 |

AMES 118-1-11 OAI45A 01

(E2F0A7) (06 MAR 80)

REFERENCE DATA

AMES 118-1-11 0A145A 01

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO

LREF = 474.8100 INCHES YMRP = .0000 IN. YO

BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO

SCALE = .0500

PARAMETRIC DATA

ALPHA = 15.000 BETA = .000

ELEVON = .000 AILRON = .000

BDFLAP = .000 SPDBRK = 55.000

RN/L = 5.000

| RUN NO. 522/ 0 | | RN/L = 4.96 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|--|-------------|--|---------------------------------|---------|
| MACH | | RUDDER | | CP12 | |
| 1.393 | | -14.731 | | .50360 | CP13 |
| 1.394 | | -10.691 | | .50290 | .44610 |
| 1.397 | | -5.381 | | .50340 | .44410 |
| 1.399 | | -2.776 | | .50440 | .44650 |
| 1.398 | | -0.076 | | .50340 | .44760 |
| 1.398 | | 2.350 | | .50390 | .44800 |
| 1.398 | | 4.848 | | .50260 | .44900 |
| 1.398 | | 9.708 | | .50380 | .44680 |
| 1.398 | | 14.547 | | .50220 | .44820 |
| 1.398 | | 18.089 | | .50390 | .44670 |
| 1.398 | | 22.417 | | .50170 | .44750 |
| | | GRADIENT | | -.00019 | -.00005 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO

LREF = 474.8100 INCHES YMRP = .0000 IN. YO

BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO

SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000

AILRON = .000 BDFLAP = .000

SPDBRK = 55.000 RUDDER = -5.000

RN/L = 5.000

| RUN NO. 586/ 0 | | RN/L = 4.95 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|----------|-------------|---------|---------------------------------|---------|
| MACH | | CP231 | | CP240 | |
| .597 | CP225 | -24530 | CP228 | -24920 | CP243 |
| .597 | ALPHA | -5.042 | -24700 | -24920 | CP246 |
| .597 | -0.062 | -23270 | -24580 | -23020 | -.25060 |
| .597 | 2.489 | -23440 | -23510 | -23020 | -.23560 |
| .597 | 4.986 | -23720 | -23750 | -24000 | -.24950 |
| .597 | 6.889 | -24420 | -23900 | -25290 | -.27540 |
| .597 | 8.073 | -23570 | -23540 | -25960 | -.29260 |
| .598 | 10.129 | -23610 | -23800 | -26780 | -.31170 |
| .598 | 12.168 | -23280 | -23000 | -27490 | -.33570 |
| .597 | 15.201 | -23310 | -24240 | -29480 | -.34750 |
| .598 | GRADIENT | -26020 | -26640 | -32850 | -.36180 |
| | | -.00152 | -.00067 | -.00449 | -.00788 |

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OAI15 TABULATED FORCE DATA
AMES 118-1-11 OAI15A 01

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(E2FOAB) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

BETA =
AILRON =
SPOBRK =
RN/L =

ELEVON = .000
BDFLAP = .000
RUDDER = -5.000

PARAMETRIC DATA

RUN NO. 580/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .801 | -5.059 | -25450 | -25660 | -25600 | -25600 | -26290 | -26290 | -25830 | -26850 | .03070 | .02650 |
| .799 | -4.714 | -25390 | -25920 | -25520 | -25820 | -26940 | -26940 | -26120 | -26790 | .03590 | .02730 |
| .796 | .038 | -25330 | -25400 | -24740 | -25670 | -25670 | -25670 | -26230 | -25950 | .13260 | .11120 |
| .800 | 2.593 | -24890 | -24870 | -24540 | -25140 | -26170 | -26170 | -26870 | -28010 | .17330 | .14690 |
| .800 | 5.142 | -24820 | -24980 | -24780 | -24650 | -27480 | -27480 | -28480 | -29400 | .20130 | .16610 |
| .800 | 7.198 | -24160 | -24160 | -23940 | -24030 | -29070 | -29070 | -29830 | -31690 | .21860 | .18230 |
| .798 | 8.227 | -23820 | -24040 | -23720 | -24380 | -28900 | -28900 | -30390 | -31630 | .22720 | .19070 |
| .800 | 10.238 | -25040 | -24420 | -24370 | -23990 | -31030 | -31030 | -31800 | -32660 | .23250 | .19270 |
| .800 | 12.275 | -26160 | -25560 | -26530 | -25630 | -33380 | -33380 | -33940 | -35490 | .24040 | .19570 |
| .799 | 15.268 | -30640 | -30510 | -30760 | -30250 | -41100 | -41100 | -41610 | -41350 | .21530 | .17330 |
| | GRADIENT | .00061 | .00139 | .00138 | .00105 | .00126 | .00126 | .00093 | .00123 | .01900 | .01653 |

RUN NO. 564/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .901 | -4.349 | -23540 | -28730 | -28610 | -28470 | -30150 | -30150 | -29770 | -29930 | .10080 | .09500 |
| .901 | .833 | -27130 | -26440 | -26730 | -27040 | -30050 | -30050 | -31670 | -32290 | .19670 | .17320 |
| .900 | 3.474 | -26880 | -27410 | -26830 | -27120 | -32520 | -32520 | -33320 | -33570 | .22440 | .19370 |
| .902 | 6.033 | -26410 | -27420 | -27540 | -26990 | -33230 | -33230 | -33860 | -33260 | .25410 | .21370 |
| .902 | 8.150 | -28460 | -28250 | -28180 | -27480 | -35330 | -35330 | -36010 | -36160 | .26640 | .25520 |
| .899 | 9.146 | -28140 | -27230 | -27530 | -27960 | -34340 | -34340 | -35490 | -36170 | .27890 | .23420 |
| .903 | 11.171 | -28230 | -28500 | -28540 | -28640 | -36570 | -36570 | -37450 | -37730 | .28090 | .23260 |
| .901 | 13.188 | -30350 | -30390 | -30590 | -30220 | -39690 | -39690 | -40290 | -40430 | .27840 | .22880 |
| .901 | 16.220 | -34340 | -33040 | -33430 | -33400 | -43420 | -43420 | -44620 | -45600 | .26980 | .22340 |
| | GRADIENT | .00220 | .00207 | .00246 | .00187 | .00258 | .00258 | .00442 | .00464 | .01617 | .01296 |

RUN NO. 561/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .951 | -5.108 | -32120 | -32320 | -32150 | -32170 | -40120 | -40120 | -41330 | -42650 | .13570 | .13510 |
| .948 | -.070 | -30820 | -30940 | -30820 | -31120 | -37690 | -37690 | -38450 | -39870 | .21800 | .19450 |
| .949 | 2.460 | -30000 | -30100 | -29860 | -30550 | -38460 | -38460 | -39440 | -40680 | .24870 | .21740 |
| .950 | 5.039 | -29360 | -29200 | -28490 | -28890 | -34780 | -34780 | -36200 | -36430 | .27570 | .24060 |
| .950 | 7.116 | -28450 | -28020 | -28680 | -28170 | -35030 | -35030 | -36470 | -36940 | .29680 | .25350 |
| .950 | 8.149 | -28360 | -28500 | -28790 | -28890 | -36140 | -36140 | -37480 | -37480 | .29860 | .25770 |
| .950 | 10.201 | -28930 | -28770 | -29050 | -28820 | -37110 | -37110 | -38170 | -38820 | .30970 | .26250 |
| .950 | 12.226 | -30690 | -30390 | -30190 | -30310 | -39390 | -39390 | -40340 | -40730 | .31310 | .26210 |
| .950 | 15.248 | -33600 | -33390 | -33530 | -34060 | -42360 | -42360 | -43550 | -44160 | .30920 | .26000 |
| | GRADIENT | .00324 | .00332 | .00379 | .00225 | .00304 | .00304 | .00391 | .00320 | .01213 | .00905 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(E2F0A8) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

BETA =
 ATILRON =
 SPDBRK =
 RN/L =

.000 ELEVON = .000
 .000 BDFLAP = .000
 55.000 RUDDER = -5.000
 5.000

PARAMETRIC DATA

RUN NO. 548/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 1.201 | -4.121 | -29430 | -29580 | -29560 | -29740 | -29120 | -29120 | -29120 | -29600 | .34600 | .34650 |
| 1.198 | .920 | -31080 | -30900 | -30900 | -30850 | -30360 | -30360 | -30820 | -31190 | .39200 | .35430 |
| 1.197 | 3.489 | -31330 | -31800 | -31420 | -31390 | -31710 | -31710 | -32390 | -32900 | .40500 | .35420 |
| 1.197 | 6.139 | -32100 | -32090 | -31910 | -31910 | -32360 | -32360 | -32520 | -32750 | .42690 | .36100 |
| 1.195 | 8.162 | -32810 | -33060 | -32930 | -33200 | -32880 | -32880 | -33000 | -33240 | .42700 | .36120 |
| 1.197 | 9.173 | -32820 | -32760 | -32570 | -32940 | -32890 | -32890 | -32760 | -33290 | .43390 | .36470 |
| 1.202 | 10.302 | -31790 | -31850 | -31820 | -31920 | -32280 | -32280 | -32730 | -33380 | .44290 | .37270 |
| 1.190 | 12.258 | -33440 | -33150 | -33190 | -32830 | -33780 | -33780 | -34210 | -34950 | .43400 | .36030 |
| 1.201 | 15.308 | -32830 | -32910 | -32810 | -32960 | -33100 | -33100 | -33500 | -33810 | .44490 | .36950 |
| | GRADIENT | -0.0260 | -0.0288 | -0.0247 | -0.0217 | -0.0327 | -0.0327 | -0.0417 | -0.0417 | .00794 | .00109 |

RUN NO. 532/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|--------|----------|
| 1.297 | -5.122 | -28350 | -28450 | -28540 | -28370 | -29090 | -29090 | -29460 | -30050 | .37520 | .38390 |
| 1.300 | .086 | -30350 | -30650 | -30380 | -30330 | -30770 | -30770 | -30920 | -31450 | .40580 | .39010 |
| 1.298 | 2.488 | -30940 | -30970 | -30930 | -30510 | -31210 | -31210 | -31470 | -31820 | .42450 | .38630 |
| 1.298 | 5.125 | -31950 | -32100 | -31990 | -31770 | -32700 | -32700 | -33150 | -33460 | .44470 | .38500 |
| 1.294 | 5.709 | -32490 | -32650 | -32670 | -32630 | -33200 | -33200 | -33690 | -33820 | .44780 | .38190 |
| 1.296 | 7.165 | -33150 | -33470 | -33420 | -33470 | -33910 | -33910 | -34190 | -34480 | .45360 | .38610 |
| 1.296 | 8.157 | -33570 | -33690 | -33640 | -33490 | -34170 | -34170 | -34480 | -34880 | .45420 | .38570 |
| 1.295 | 10.201 | -34350 | -34440 | -34440 | -34410 | -34870 | -34870 | -35280 | -35550 | .46170 | .39000 |
| 1.293 | 12.260 | -35410 | -35570 | -35600 | -35570 | -35510 | -35510 | -35940 | -36010 | .46510 | .38730 |
| 1.294 | 15.291 | -35430 | -35560 | -35570 | -35430 | -35230 | -35230 | -35440 | -35800 | .47370 | .39310 |
| | GRADIENT | -0.0229 | -0.0124 | -0.0214 | -0.0070 | -0.0171 | -0.0171 | -0.0214 | -0.0144 | .00882 | -0.00124 |

RUN NO. 515/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 1.404 | -5.118 | -27170 | -27240 | -27170 | -27320 | -27810 | -27810 | -27940 | -28380 | .39520 | .42200 |
| 1.410 | .107 | -28740 | -28910 | -28890 | -28910 | -28910 | -28910 | -29090 | -29320 | .43820 | .43440 |
| 1.404 | 2.643 | -30420 | -30530 | -30450 | -30410 | -30750 | -30750 | -30930 | -31070 | .45090 | .43920 |
| 1.401 | 5.104 | -30730 | -30990 | -30960 | -31100 | -31150 | -31150 | -31460 | -31610 | .47870 | .44110 |
| 1.401 | 7.150 | -31650 | -31740 | -31770 | -31710 | -31800 | -31800 | -31870 | -32200 | .48160 | .44580 |
| 1.400 | 8.172 | -31890 | -31930 | -31910 | -32040 | -31990 | -31990 | -32210 | -32540 | .48160 | .45330 |
| 1.398 | 10.241 | -32230 | -32230 | -32310 | -32290 | -32140 | -32140 | -32280 | -32580 | .49340 | .45350 |
| 1.397 | 12.248 | -32930 | -33080 | -33190 | -33130 | -32330 | -32330 | -32420 | -32690 | .49570 | .44570 |
| 1.392 | 15.282 | -33240 | -33350 | -33320 | -33300 | -31880 | -31880 | -32050 | -32370 | .49820 | .44520 |
| | GRADIENT | -0.0663 | -0.0639 | -0.0615 | -0.0592 | -0.0726 | -0.0726 | -0.0726 | -0.0690 | .00501 | .00189 |

DATE 10 MAR 80

OAI145 TABULATED FORCE DATA

PAGE 1894

AMES 118-1-11 OAI145A 01

(E2F0A9) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 55.000 RUDDER = -5.000
 RN/L = 5.000

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .598 | -6.022 | -23890 | -24150 | -23530 | -24100 | -24940 | -24940 | -26310 | -27330 | .30460 | -.01390 |
| .598 | -1.928 | -22920 | -23300 | -23280 | -23660 | -24750 | -24750 | -25980 | -27050 | .20660 | .08680 |
| .599 | -.889 | -23010 | -22820 | -22680 | -22850 | -24470 | -24470 | -25300 | -26270 | .18150 | .11430 |
| .598 | .031 | -23230 | -23140 | -23210 | -22990 | -25120 | -25120 | -25920 | -27420 | .15720 | .13260 |
| .598 | .503 | -23280 | -23160 | -22900 | -23160 | -24900 | -24900 | -25880 | -27400 | .14880 | .14550 |
| .598 | 1.037 | -23110 | -22660 | -22850 | -22830 | -25170 | -25170 | -25790 | -27090 | .13650 | .15640 |
| .598 | 2.104 | -23330 | -23260 | -23300 | -23420 | -24930 | -24930 | -25970 | -27730 | .10950 | .18250 |
| .597 | 3.144 | -24120 | -23930 | -23880 | -23760 | -25050 | -25050 | -26100 | -27550 | .08450 | .20930 |
| .597 | 4.175 | -23740 | -23620 | -23330 | -23360 | -25150 | -25150 | -25630 | -27720 | .06060 | .23350 |
| .597 | 6.227 | -24810 | -24500 | -24830 | -24550 | -25240 | -25240 | -26050 | -28070 | .01340 | .28520 |
| | GRADIENT | -.00168 | -.00118 | -.00098 | -.00050 | -.00075 | -.00075 | -.00019 | -.00165 | -.02390 | .02391 |

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|--------|--------|---------|---------|---------|--------|---------|---------|--------|
| .797 | -6.133 | -24640 | -24850 | -24680 | -24290 | -27020 | -27020 | -28160 | -29050 | .34710 | .01210 |
| .797 | -2.024 | -24000 | -24210 | -24270 | -23760 | -26580 | -26580 | -28160 | -29050 | .25140 | .11680 |
| .799 | -.993 | -24110 | -24760 | -24410 | -24950 | -26850 | -26850 | -27860 | -29190 | .22590 | .14180 |
| .799 | .079 | -24300 | -24630 | -24200 | -24370 | -26940 | -26940 | -27600 | -29190 | .19780 | .16710 |
| .799 | .521 | -24440 | -24160 | -23610 | -24100 | -27290 | -27290 | -28210 | -28860 | .19100 | .17960 |
| .798 | 1.036 | -24430 | -24430 | -24490 | -24540 | -26550 | -26550 | -28380 | -29900 | .17780 | .19700 |
| .799 | 2.111 | -23760 | -23740 | -23740 | -24230 | -26550 | -26550 | -27850 | -29570 | .15610 | .22360 |
| .799 | 3.155 | -24450 | -24450 | -24090 | -24710 | -26950 | -26950 | -27830 | -28470 | .12590 | .24950 |
| .800 | 4.186 | -24250 | -24670 | -24010 | -24610 | -27350 | -27350 | -28140 | -29390 | .10470 | .27330 |
| .801 | 6.365 | -25750 | -25000 | -25090 | -25000 | -27590 | -27590 | -28860 | -29570 | .05160 | .32890 |
| | GRADIENT | -.00026 | .00000 | .00056 | -.00072 | -.00066 | -.00066 | .00105 | -.00032 | -.02356 | .02562 |

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|--------|---------|---------|--------|
| .901 | -6.097 | -26380 | -26020 | -25790 | -26430 | -29480 | -29480 | -30450 | -30560 | .40240 | .06030 |
| .900 | -1.960 | -26240 | -26330 | -26290 | -26050 | -33140 | -33140 | -34010 | -35530 | .30400 | .16490 |
| .900 | -.926 | -26660 | -26510 | -26820 | -27040 | -32790 | -32790 | -34140 | -34780 | .27820 | .19410 |
| .901 | .039 | -26570 | -26950 | -26470 | -27070 | -31710 | -31710 | -33060 | -33400 | .25720 | .21910 |
| .901 | .506 | -26090 | -26730 | -26520 | -25770 | -32270 | -32270 | -32430 | -33060 | .24550 | .23010 |
| .900 | 1.039 | -27110 | -27090 | -27420 | -27690 | -33320 | -33320 | -33030 | -33850 | .23310 | .23870 |
| .900 | 2.110 | -28670 | -28070 | -28020 | -27860 | -32760 | -32760 | -33030 | -34420 | .20370 | .27110 |
| .899 | 3.165 | -29080 | -28890 | -28280 | -28370 | -34120 | -34120 | -34070 | -34770 | .17690 | .29500 |
| .899 | 4.224 | -28770 | -28720 | -28770 | -28370 | -35440 | -35440 | -35770 | -37410 | .15010 | .32020 |
| .898 | 6.299 | -30600 | -29930 | -30780 | -29430 | -36010 | -36010 | -37290 | -36830 | .10460 | .37630 |
| | GRADIENT | -.00526 | -.00463 | -.00426 | -.00380 | -.00387 | -.00387 | .00206 | -.00053 | -.02496 | .02509 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(E2FOA9) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 55.000 RUDDER = -5.000
 RN/L = 5.000

RUN NO. 557/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|--------|
| .950 | -6.112 | -28700 | -28690 | -28940 | -29570 | -34360 | -34360 | -35710 | -36240 | .42000 | .08720 |
| .951 | -1.965 | -27690 | -27310 | -27140 | -27080 | -33440 | -33440 | -34870 | -35650 | .32570 | .19040 |
| .947 | -.917 | -28070 | -29030 | -29280 | -28880 | -34590 | -34590 | -35800 | -35700 | .29920 | .21300 |
| .950 | .157 | -28700 | -28220 | -29140 | -28680 | -34280 | -34280 | -35310 | -36280 | .27610 | .24450 |
| .949 | .638 | -29510 | -29300 | -28490 | -28800 | -34070 | -34070 | -35020 | -36420 | .26610 | .25780 |
| .950 | 1.160 | -28400 | -28440 | -28680 | -28680 | -35040 | -35040 | -35560 | -36300 | .25250 | .26740 |
| .948 | 2.214 | -29280 | -29210 | -29110 | -29740 | -35910 | -35910 | -36990 | -37390 | .22490 | .29130 |
| .948 | 3.258 | -30180 | -29410 | -29630 | -30460 | -36210 | -36210 | -36870 | -37920 | .20310 | .31970 |
| .950 | 4.295 | -30400 | -31470 | -31620 | -31670 | -36780 | -36780 | -38620 | -38490 | .18440 | .34730 |
| .947 | 6.367 | -32950 | -33160 | -32090 | -32930 | -38740 | -38740 | -38920 | -40850 | .13190 | .39690 |
| | GRADIENT | -0.00431 | -0.00479 | -0.00491 | -0.00619 | -0.00523 | -0.00523 | -0.00531 | -0.00484 | -.02288 | .02499 |

RUN NO. 539/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 1.201 | -6.113 | -31600 | -31630 | -31820 | -31730 | -31690 | -31690 | -31630 | -32100 | .55390 | .26240 |
| 1.199 | -1.946 | -31920 | -31920 | -32040 | -31860 | -31980 | -31980 | -32300 | -32620 | .46050 | .31520 |
| 1.199 | -.910 | -31980 | -31760 | -32090 | -31600 | -32310 | -32310 | -32610 | -33320 | .43730 | .33650 |
| 1.199 | .034 | -32250 | -32460 | -31950 | -31810 | -32090 | -32090 | -32470 | -33090 | .41610 | .36080 |
| 1.201 | .590 | -31430 | -31280 | -31500 | -31420 | -31750 | -31750 | -32160 | -32930 | .40980 | .37590 |
| 1.199 | 1.075 | -31520 | -31510 | -31390 | -31430 | -31770 | -31770 | -32670 | -32940 | .39980 | .38700 |
| 1.200 | 2.143 | -31480 | -31570 | -31510 | -31580 | -31800 | -31800 | -32580 | -32980 | .38260 | .4380 |
| 1.201 | 3.187 | -31580 | -31330 | -31550 | -31590 | -32110 | -32110 | -32330 | -33410 | .36130 | .43780 |
| 1.201 | 4.231 | -31670 | -31120 | -31480 | -31410 | -31710 | -31710 | -32260 | -33160 | .34060 | .46580 |
| 1.201 | 6.325 | -31490 | -31380 | -31820 | -31850 | -31750 | -31750 | -31810 | -32360 | .31000 | .51560 |
| | GRADIENT | .00075 | .00138 | .00106 | .00052 | .00048 | .00048 | .00016 | -.00061 | -.01891 | .02453 |

RUN NO. 531/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|--------|----------|----------|----------|----------|--------|--------|--------|--------|---------|--------|
| 1.298 | -6.075 | -32570 | -32390 | -32130 | -32450 | -33220 | -33220 | -33320 | -33730 | .55940 | .32070 |
| 1.300 | -1.952 | -31880 | -31870 | -31610 | -31750 | -32740 | -32740 | -32950 | -33340 | .48110 | .36480 |
| 1.298 | -.907 | -31510 | -31810 | -31550 | -31550 | -32430 | -32430 | -32860 | -33130 | .46310 | .37250 |
| 1.297 | .169 | -31950 | -32020 | -32130 | -32260 | -32440 | -32440 | -33050 | -33350 | .44440 | .38700 |
| 1.298 | .639 | -31740 | -31860 | -31730 | -31770 | -32240 | -32240 | -32760 | -33020 | .43560 | .39740 |
| 1.298 | 1.165 | -31670 | -31850 | -31500 | -31740 | -32220 | -32220 | -32750 | -33070 | .42610 | .40660 |
| 1.296 | 2.220 | -31990 | -32100 | -32040 | -32290 | -32570 | -32570 | -32710 | -33380 | .40790 | .42930 |
| 1.298 | 3.264 | -32140 | -31920 | -32080 | -32140 | -32260 | -32260 | -32670 | -33290 | .39470 | .45290 |
| 1.296 | 4.303 | -31920 | -31990 | -31890 | -31670 | -31750 | -31750 | -31830 | -32470 | .38400 | .47470 |
| 1.296 | 6.377 | -31720 | -31570 | -31320 | -31740 | -31480 | -31480 | -31970 | -32540 | .35160 | .52700 |
| 1.294 | | -0.00050 | -0.00024 | -0.00064 | -0.00036 | .00106 | .00106 | .00140 | .00100 | -.01591 | .01835 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1896

(E2F0A9) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 516/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| 1.406 | -6.112 | -30090 | -29950 | -29970 | -29910 | -30290 | -30290 | -30480 | -30660 | .57340 | .35510 |
| 1.403 | -1.961 | -31080 | -31190 | -31080 | -31110 | -31370 | -31370 | -31300 | -31660 | .49880 | .41870 |
| 1.404 | -.916 | -30830 | -30870 | -30990 | -30870 | -31160 | -31160 | -31320 | -31570 | .48420 | .42980 |
| 1.403 | .140 | -30960 | -31040 | -31000 | -31100 | -31240 | -31240 | -31350 | -31580 | .47610 | .44000 |
| 1.402 | .677 | -30970 | -31000 | -31080 | -31120 | -31140 | -31140 | -31370 | -31500 | .47230 | .44430 |
| 1.403 | 1.175 | -30620 | -30830 | -30750 | -30820 | -30890 | -30890 | -31000 | -31320 | .46800 | .44810 |
| 1.403 | 2.223 | -30370 | -30360 | -30280 | -30460 | -30630 | -30630 | -30840 | -30860 | .45720 | .43730 |
| 1.404 | 3.265 | -30150 | -30310 | -30210 | -30240 | -30280 | -30280 | -30420 | -30580 | .42860 | .47530 |
| 1.402 | 4.316 | -29250 | -30390 | -30430 | -30300 | -30260 | -30260 | -30420 | -30670 | .40720 | .49610 |
| 1.400 | 6.407 | -29650 | -29720 | -29610 | -29670 | -29970 | -29970 | -29400 | -29630 | .35050 | .54530 |
| | GRADIENT | .00156 | .00146 | .00149 | .00153 | .00198 | .00198 | .00181 | .00198 | -.01422 | .01166 |

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 55.000 RUDDER = -5.000
 RN/L = 5.000

AMES 118-1-11 OAI45A 01

(E2F0B0) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 588/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|--------|--------|---------|---------|---------|---------|
| .598 | -5.996 | -24140 | -24610 | -24330 | -24450 | -25750 | -25750 | -26360 | -28140 | .30120 | -.01420 |
| .598 | -1.902 | -23670 | -23570 | -23450 | -23500 | -25340 | -25340 | -26650 | -27690 | .20620 | .08650 |
| .597 | -.865 | -23620 | -23540 | -23930 | -23500 | -25560 | -25560 | -26170 | -28240 | .17820 | .11020 |
| .599 | .043 | -23130 | -23720 | -23390 | -23700 | -25390 | -25390 | -26290 | -27710 | .15830 | .13310 |
| .598 | .528 | -23340 | -23650 | -23270 | -22820 | -25100 | -25100 | -26660 | -27920 | .14630 | .14770 |
| .598 | 1.061 | -23120 | -23500 | -23050 | -22860 | -24980 | -24980 | -26280 | -27220 | .13570 | .16080 |
| .598 | 2.130 | -23820 | -23160 | -23230 | -23020 | -25310 | -25310 | -26900 | -27280 | .10720 | .18360 |
| .598 | 3.170 | -24240 | -23600 | -23430 | -23680 | -25200 | -25200 | -26570 | -28230 | .08210 | .21190 |
| .598 | 4.193 | -24450 | -24310 | -24690 | -24070 | -25270 | -25270 | -26740 | -27900 | .05910 | .23630 |
| .596 | 6.244 | -25260 | -24900 | -24000 | -24830 | -26480 | -26480 | -26910 | -29070 | .00740 | .28040 |
| | GRADIENT | -.00158 | -.00062 | -.00098 | -.00076 | .00031 | .00031 | -.00057 | -.00006 | -.02407 | .02469 |

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 55.000 RUDDER = -22.800
 RN/L = 5.000

REFERENCE DATA

| | | | | |
|-------|---|-----------|--------|------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP |
| LREF | = | 474.8100 | INCHES | YMRP |
| BREF | = | 936.6800 | INCHES | ZMRP |
| SCALE | = | .0500 | | |

| | | | |
|---|-----------|-----|----|
| = | 1076.6800 | IN. | X0 |
| = | .0000 | IN. | Y0 |
| = | 375.0000 | IN. | Z0 |

| | | | |
|---------|--------|-------------|---------------------------------|
| RUN NO. | 566/ 0 | RN/L = 4.94 | GRADIENT INTERVAL = -5.00/ 5.00 |
|---------|--------|-------------|---------------------------------|

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| .900 | -6.112 | -27000 | -27150 | -26650 | -26820 | -32180 | -32790 | -33430 | -38940 | -05110 |
| .900 | -1.916 | -27000 | -26790 | -26530 | -26910 | -33680 | -33950 | -35910 | -28860 | -15780 |
| .900 | -.870 | -27370 | -26860 | -26360 | -26940 | -34000 | -34670 | -35880 | -26590 | -18360 |
| .900 | .199 | -27510 | -26730 | -27050 | -26760 | -32240 | -33090 | -34060 | -24390 | -21370 |
| .900 | .673 | -27150 | -26730 | -26810 | -27150 | -32790 | -33610 | -33820 | -23100 | -22540 |
| .900 | 1.193 | -27280 | -27130 | -27200 | -27250 | -32560 | -34320 | -33820 | -21960 | -23890 |
| .900 | 2.244 | -27850 | -28280 | -28310 | -28400 | -34020 | -34050 | -33760 | -19170 | -26170 |
| .898 | 3.286 | -28470 | -29680 | -29140 | -28820 | -34750 | -36220 | -34910 | -16400 | -28550 |
| .898 | 4.323 | -30740 | -30310 | -30480 | -31170 | -35250 | -36260 | -36940 | -14610 | -31320 |
| .895 | 6.391 | -32640 | -31330 | -31760 | -32480 | -38540 | -38170 | -37810 | -08800 | -35920 |
| GRADIENT | -00523 | -00612 | -00653 | -00633 | -00287 | -00287 | -00390 | -00047 | -.02352 | -02465 |

RUN NO. 540/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP243 | CP246 | CP249 | CP252 | CP255 | CP258 | CP261 | CP264 | CP267 | CP270 | CP273 | CP276 | CP279 | CP282 | CP285 | CP288 | CP291 | CP294 | CP297 | CP300 | CP303 | CP306 | CP309 | CP312 | CP315 | CP318 | CP321 | CP324 | CP327 | CP330 | CP333 | CP336 | CP339 | CP342 | CP345 | CP348 | CP351 | CP354 | CP357 | CP360 | CP363 | CP366 | CP369 | CP372 | CP375 | CP378 | CP381 | CP384 | CP387 | CP390 | CP393 | CP396 | CP399 | CP402 | CP405 | CP408 | CP411 | CP414 | CP417 | CP420 | CP423 | CP426 | CP429 | CP432 | CP435 | CP438 | CP441 | CP444 | CP447 | CP450 | CP453 | CP456 | CP459 | CP462 | CP465 | CP468 | CP471 | CP474 | CP477 | CP480 | CP483 | CP486 | CP489 | CP492 | CP495 | CP498 | CP501 | CP504 | CP507 | CP510 | CP513 | CP516 | CP519 | CP522 | CP525 | CP528 | CP531 | CP534 | CP537 | CP540 | CP543 | CP546 | CP549 | CP552 | CP555 | CP558 | CP561 | CP564 | CP567 | CP570 | CP573 | CP576 | CP579 | CP582 | CP585 | CP588 | CP591 | CP594 | CP597 | CP600 | CP603 | CP606 | CP609 | CP612 | CP615 | CP618 | CP621 | CP624 | CP627 | CP630 | CP633 | CP636 | CP639 | CP642 | CP645 | CP648 | CP651 | CP654 | CP657 | CP660 | CP663 | CP666 | CP669 | CP672 | CP675 | CP678 | CP681 | CP684 | CP687 | CP690 | CP693 | CP696 | CP699 | CP702 | CP705 | CP708 | CP711 | CP714 | CP717 | CP720 | CP723 | CP726 | CP729 | CP732 | CP735 | CP738 | CP741 | CP744 | CP747 | CP750 | CP753 | CP756 | CP759 | CP762 | CP765 | CP768 | CP771 | CP774 | CP777 | CP780 | CP783 | CP786 | CP789 | CP792 | CP795 | CP798 | CP801 | CP804 | CP807 | CP810 | CP813 | CP816 | CP819 | CP822 | CP825 | CP828 | CP831 | CP834 | CP837 | CP840 | CP843 | CP846 | CP849 | CP852 | CP855 | CP858 | CP861 | CP864 | CP867 | CP870 | CP873 | CP876 | CP879 | CP882 | CP885 | CP888 | CP891 | CP894 | CP897 | CP900 | CP903 | CP906 | CP909 | CP912 | CP915 | CP918 | CP921 | CP924 | CP927 | CP930 | CP933 | CP936 | CP939 | CP942 | CP945 | CP948 | CP951 | CP954 | CP957 | CP960 | CP963 | CP966 | CP969 | CP972 | CP975 | CP978 | CP981 | CP984 | CP987 | CP990 | CP993 | CP996 | CP999 | CP1002 | CP1005 | CP1008 | CP1011 | CP1014 | CP1017 | CP1020 | CP1023 | CP1026 | CP1029 | CP1032 | CP1035 | CP1038 | CP1041 | CP1044 | CP1047 | CP1050 | CP1053 | CP1056 | CP1059 | CP1062 | CP1065 | CP1068 | CP1071 | CP1074 | CP1077 | CP1080 | CP1083 | CP1086 | CP1089 | CP1092 | CP1095 | CP1098 | CP1101 | CP1104 | CP1107 | CP1110 | CP1113 | CP1116 | CP1119 | CP1122 | CP1125 | CP1128 | CP1131 | CP1134 | CP1137 | CP1140 | CP1143 | CP1146 | CP1149 | CP1152 | CP1155 | CP1158 | CP1161 | CP1164 | CP1167 | CP1170 | CP1173 | CP1176 | CP1179 | CP1182 | CP1185 | CP1188 | CP1191 | CP1194 | CP1197 | CP1200 | CP1203 | CP1206 | CP1209 | CP1212 | CP1215 | CP1218 | CP1221 | CP1224 | CP1227 | CP1230 | CP1233 | CP1236 | CP1239 | CP1242 | CP1245 | CP1248 | CP1251 | CP1254 | CP1257 | CP1260 | CP1263 | CP1266 | CP1269 | CP1272 | CP1275 | CP1278 | CP1281 | CP1284 | CP1287 | CP1290 | CP1293 | CP1296 | CP1299 | CP1302 | CP1305 | CP1308 | CP1311 | CP1314 | CP1317 | CP1320 | CP1323 | CP1326 | CP1329 | CP1332 | CP1335 | CP1338 | CP1341 | CP1344 | CP1347 | CP1350 | CP1353 | CP1356 | CP1359 | CP1362 | CP1365 | CP1368 | CP1371 | CP1374 | CP1377 | CP1380 | CP1383 | CP1386 | CP1389 | CP1392 | CP1395 | CP1398 | CP1401 | CP1404 | CP1407 | CP1410 | CP1413 | CP1416 | CP1419 | CP1422 | CP1425 | CP1428 | CP1431 | CP1434 | CP1437 | CP1440 | CP1443 | CP1446 | CP1449 | CP1452 | CP1455 | CP1458 | CP1461 | CP1464 | CP1467 | CP1470 | CP1473 | CP1476 | CP1479 | CP1482 | CP1485 | CP1488 | CP1491 | CP1494 | CP1497 | CP1500 | CP1503 | CP1506 | CP1509 | CP1512 | CP1515 | CP1518 | CP1521 | CP1524 |
|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | |
|---------|--------|--------|------|---------------------|--------|------|
| RUN NO. | 517/ 0 | RN/L = | 4.96 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|---------|--------|--------|------|---------------------|--------|------|

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|
| 1.403 | -6.102 | 30330 | 30090 | 30150 | 30290 | 30400 | 30400 | 30480 | 30780 | 57280 | 35270 |
| 1.404 | -1.942 | 30340 | 30380 | 30410 | 30370 | 30680 | 30680 | 30960 | 31050 | 49790 | 41870 |
| 1.404 | - | 30370 | 30300 | 30430 | 30390 | 30790 | 30790 | 30900 | 31080 | 43120 | 44340 |
| 1.404 | -895 | 30370 | 30360 | 30460 | 30470 | 30750 | 30750 | 30930 | 31170 | 47820 | 44340 |
| 1.404 | 180 | 30580 | 30560 | 30460 | 30470 | 30750 | 30750 | 30930 | 31170 | 47820 | 44340 |
| 1.404 | 30290 | 30380 | 30350 | 30430 | 30470 | 30390 | 30390 | 30730 | 31060 | 47470 | 44760 |
| 1.404 | 661 | 30380 | 30340 | 30360 | 30580 | 30530 | 30530 | 30820 | 31050 | 44860 | 44860 |
| 1.402 | 1.182 | 30380 | 30340 | 30360 | 30580 | 30530 | 30530 | 30820 | 31050 | 44860 | 44860 |
| 1.402 | 2.233 | 30070 | 30220 | 30210 | 30300 | 30390 | 30390 | 30590 | 30820 | 46860 | 45680 |
| 1.402 | 3.281 | 29880 | 30150 | 30010 | 30220 | 29970 | 29970 | 30350 | 30650 | 42870 | 47980 |
| 1.402 | 4.328 | 29850 | 30150 | 29950 | 30080 | 29960 | 29960 | 30370 | 30570 | 40470 | 49640 |
| 1.402 | 6.414 | 29870 | 29950 | 29970 | 30060 | 298570 | 298570 | 30370 | 30570 | 40470 | 49640 |
| 1.402 | 10101 | 29870 | 29950 | 29970 | 30060 | 298570 | 298570 | 30370 | 30570 | 40470 | 49640 |
| GRADIENT | | 00049 | 00046 | 00086 | 00049 | 00140 | 00140 | 00109 | 00092 | 01449 | 0175 |

PARAMETRIC DATA

| | | | | | |
|--------|---|--------|--------|---|---------|
| ALPHA | = | 5.000 | ELEVON | = | .000 |
| AILRON | = | .000 | BDFLAP | = | .000 |
| SPDBRK | = | 55.000 | RUDDER | = | -22.800 |
| RN/L | = | 5.000 | | | |

| CP246 | CP12 | CP13 |
|----------|---------|--------|
| - .33430 | .38940 | .05110 |
| - .35910 | .28850 | .15780 |
| - .35880 | .26590 | .18360 |
| - .34060 | .24390 | .21370 |
| - .33820 | .23100 | .22540 |
| - .33820 | .21960 | .23890 |
| - .33760 | .19170 | .26170 |
| - .34910 | .16400 | .28550 |
| - .36940 | .14610 | .31320 |
| - .37810 | .08800 | .35920 |
| - .00047 | -.02352 | .02465 |

| CP246 | CP12 | CP13 |
|---------|---------|-------|
| - 33490 | 54920 | 26130 |
| - 32230 | 46070 | 31920 |
| - 32890 | 43680 | 34030 |
| - 32890 | 41910 | 36370 |
| - 32820 | 41030 | 37650 |
| - 32760 | 40120 | 38800 |
| - 32960 | 38220 | 41200 |
| - 33060 | 36320 | 43780 |
| - 33460 | 34210 | 46240 |
| - 33280 | 30980 | 51790 |
| - 00142 | - 01874 | 02338 |

| CP246 | CP12 | CP13 |
|---------|---------|-------|
| - 30780 | 57290 | 35270 |
| - 31050 | 49790 | 41870 |
| - 31080 | 48400 | 43120 |
| - 31170 | 47820 | 44340 |
| - 31050 | 47470 | 44760 |
| - 31050 | 46960 | 44860 |
| - 30820 | 44860 | 45680 |
| - 30650 | 42870 | 47980 |
| - 30570 | 40470 | 49640 |
| - 28950 | 34810 | 44500 |
| 02092 | - 01449 | 1 176 |

DATE 10 MAR 80

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(E2F081) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDGRK = 70.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 753/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .597 | -5.037 | -25500 | -25360 | -25430 | -25170 | -25610 | -25610 | -25150 | -25750 | -.03900 | -.03550 |
| .600 | -.088 | -24420 | -24680 | -24540 | -24590 | -23850 | -23850 | -23990 | -23940 | .08060 | .06830 |
| .599 | 2.394 | -25040 | -24900 | -24930 | -25090 | -25130 | -25130 | -25200 | -25440 | .11810 | .09860 |
| .597 | 4.864 | -24930 | -24930 | -24670 | -24740 | -25250 | -25250 | -26290 | -27120 | .15050 | .13160 |
| .598 | 6.938 | -24790 | -24620 | -24690 | -24640 | -26610 | -26610 | -27270 | -29340 | .16960 | .14510 |
| .597 | 7.964 | -25170 | -25210 | -25070 | -25550 | -27100 | -27100 | -28490 | -30970 | .17000 | .14900 |
| .596 | 10.010 | -24840 | -24530 | -24130 | -24290 | -27160 | -27160 | -28770 | -32180 | .18690 | .15390 |
| .595 | 12.050 | -25520 | -25710 | -25520 | -25710 | -28910 | -28910 | -31740 | -34390 | .18220 | .14840 |
| .597 | 15.054 | -26560 | -27110 | -26940 | -26990 | -33030 | -33030 | -35250 | -35180 | .16530 | .13020 |
| | GRADIENT | -.00103 | -.00051 | -.00026 | -.00030 | -.00283 | -.00283 | -.00465 | -.00642 | .01412 | .01278 |

RUN NO. 752/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| .799 | -5.078 | -28180 | -27600 | -27480 | -28100 | -27810 | -27810 | -27920 | -27640 | .01800 | .01990 |
| .803 | -.271 | -25950 | -26640 | -26670 | -26430 | -26160 | -26160 | -26180 | -25900 | .11080 | .10980 |
| .800 | 2.417 | -26300 | -26170 | -26380 | -26430 | -26970 | -26970 | -26710 | -27770 | .16240 | .13980 |
| .798 | 4.893 | -25690 | -25990 | -26120 | -26140 | -27720 | -27720 | -27660 | -29150 | .18650 | .16240 |
| .798 | 6.970 | -26450 | -26520 | -25900 | -25980 | -29480 | -29480 | -30340 | -31550 | .21040 | .17820 |
| .798 | 8.022 | -25640 | -25850 | -25720 | -25960 | -29880 | -29880 | -30950 | -31710 | .21690 | .18670 |
| .798 | 10.044 | -26860 | -26500 | -26970 | -25900 | -31060 | -31060 | -32630 | -32960 | .23250 | .19440 |
| .799 | 12.085 | -27520 | -26870 | -26890 | -26890 | -34530 | -34530 | -35700 | -35800 | .22870 | .19130 |
| .799 | 15.069 | -29960 | -29850 | -30130 | -30200 | -39380 | -39380 | -40650 | -40740 | .23040 | .18420 |
| | GRADIENT | .00048 | -.00070 | -.00090 | -.00129 | -.00302 | -.00302 | -.00285 | -.00630 | .01182 | .01000 |

RUN NO. 748/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|--------|--------|--------|---------|---------|---------|---------|--------|--------|
| .900 | -5.085 | -30240 | -30270 | -30760 | -30140 | -30970 | -30970 | -31600 | -31110 | .08260 | .08170 |
| .901 | -.083 | -27510 | -27650 | -28030 | -27800 | -29020 | -29020 | -29360 | -30410 | .17910 | .15890 |
| .900 | 2.424 | -28070 | -27530 | -28030 | -27510 | -31010 | -31010 | -31510 | -31670 | .20790 | .18380 |
| .899 | 5.029 | -27530 | -27810 | -27010 | -28030 | -33780 | -33780 | -34760 | -34480 | .23830 | .20770 |
| .898 | 5.672 | -28260 | -27910 | -27250 | -27600 | -33390 | -33390 | -34720 | -35010 | .24350 | .21130 |
| .900 | 7.021 | -27810 | -27620 | -28130 | -27990 | -34080 | -34080 | -35330 | -35380 | .26000 | .22390 |
| .900 | 8.079 | -28040 | -27870 | -28550 | -28380 | -35760 | -35760 | -35850 | -36620 | .26370 | .22860 |
| .902 | 10.127 | -27780 | -27970 | -27780 | -28360 | -35900 | -35900 | -36980 | -36980 | .27910 | .23680 |
| .898 | 15.089 | -31400 | -31780 | -32430 | -32570 | -42840 | -42840 | -43930 | -43150 | .27460 | .22780 |
| | GRADIENT | -.00223 | .00048 | .00164 | .00092 | -.00794 | -.00794 | -.00857 | -.00502 | .01149 | .00993 |

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(E2F0B1) (08 JUL 77)

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REFERENCE DATA

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 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

BETA =
 AILRON =
 SPDBRK =
 RN/L =

ELEVON = .000
 BOFLAP = .000
 RUDDER = .000
 70.000
 5.000

PARAMETRIC DATA

RUN NO. 743/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|---------|---------|---------|---------|--------|--------|
| .951 | -5.076 | -32220 | -32590 | -32200 | -32640 | -39350 | -39350 | -40010 | -41030 | .13070 | .13460 |
| .951 | -.060 | -30330 | -30250 | -30360 | -30200 | -36610 | -36610 | -37110 | -38360 | .21490 | .19500 |
| .952 | 2.508 | -29290 | -29350 | -29920 | -29900 | -36950 | -36950 | -37660 | -38590 | .24760 | .22160 |
| .952 | 5.067 | -28650 | -28270 | -28200 | -28370 | -34470 | -34470 | -35290 | -35950 | .27360 | .24160 |
| .949 | 7.105 | -28410 | -28390 | -28550 | -28950 | -35350 | -35350 | -35730 | -36420 | .29230 | .25430 |
| .950 | 8.145 | -28070 | -28380 | -28450 | -28680 | -36550 | -36550 | -37000 | -37420 | .29720 | .26960 |
| .951 | 10.190 | -28790 | -29130 | -28880 | -29660 | -38660 | -38660 | -39710 | -39290 | .30950 | .29400 |
| .953 | 12.219 | -30170 | -30360 | -30390 | -30520 | -40950 | -40950 | -42100 | -41970 | .31060 | .26400 |
| .952 | 15.255 | -33800 | -32960 | -34160 | -34130 | -44740 | -44740 | -45630 | -45660 | .30720 | .25720 |
| | GRADIENT | .00405 | .00350 | .00171 | .00117 | -.00132 | -.00132 | -.00214 | -.00090 | .01273 | .01036 |

RUN NO. 742/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 1.201 | -5.069 | -26530 | -26640 | -26630 | -26790 | -26320 | -26320 | -26570 | -27040 | .33000 | .34150 |
| 1.198 | -.067 | -28810 | -28550 | -28600 | -28770 | -28380 | -28380 | -28560 | -29110 | .37740 | .34990 |
| 1.202 | 2.495 | -29790 | -30000 | -29860 | -29930 | -30030 | -30030 | -30480 | -30900 | .39850 | .35690 |
| 1.198 | 5.112 | -31730 | -31760 | -31660 | -32000 | -32490 | -32490 | -33020 | -32500 | .41010 | .35930 |
| 1.199 | 7.154 | -33030 | -32850 | -33050 | -33080 | -33800 | -33800 | -33980 | -34210 | .42480 | .36390 |
| 1.199 | 8.151 | -33940 | -33160 | -33160 | -33240 | -34080 | -34080 | -34460 | -34830 | .42540 | .36700 |
| 1.199 | 10.197 | -33430 | -33430 | -33510 | -33690 | -34020 | -34020 | -34710 | -34960 | .43480 | .37050 |
| 1.199 | 12.207 | -33690 | -33820 | -33420 | -33180 | -34470 | -34470 | -34970 | -35110 | .43560 | .36800 |
| 1.199 | 15.232 | -33330 | -32980 | -33230 | -33220 | -34480 | -34480 | -34540 | -35120 | .43880 | .36680 |
| 1.201 | GRADIENT | -.00382 | -.00566 | -.00492 | -.00453 | -.00644 | -.00644 | -.00749 | -.00699 | .00823 | .00273 |

RUN NO. 735/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 1.400 | -5.075 | -25500 | -25410 | -25480 | -25560 | -26380 | -26380 | -26790 | -27160 | .35590 | .42560 |
| 1.404 | -.026 | -29070 | -27930 | -27950 | -27930 | -28220 | -28220 | -28420 | -28520 | .43700 | .43680 |
| 1.404 | .397 | -28520 | -28300 | -28310 | -28420 | -28780 | -28780 | -29020 | -29280 | .43780 | .43460 |
| 1.402 | 2.487 | -29960 | -29850 | -30040 | -30130 | -30490 | -30490 | -30570 | -30810 | .45170 | .44370 |
| 1.399 | 5.073 | -31010 | -31090 | -31040 | -31170 | -31570 | -31570 | -31740 | -32100 | .47390 | .44220 |
| 1.399 | 7.115 | -32240 | -32160 | -32310 | -32370 | -32650 | -32650 | -32650 | -32660 | .48580 | .45130 |
| 1.399 | 8.148 | -32510 | -32390 | -32460 | -32510 | -32650 | -32650 | -32880 | -32950 | .48290 | .45500 |
| 1.400 | 10.206 | -32840 | -32790 | -32790 | -32850 | -32910 | -32910 | -32970 | -33200 | .49420 | .45770 |
| 1.397 | 12.194 | -33530 | -33440 | -33500 | -33480 | -33220 | -33220 | -33400 | -33650 | .49460 | .44990 |
| 1.397 | 15.258 | -33950 | -33880 | -33890 | -33960 | -33150 | -33150 | -33390 | -33560 | .50100 | .44940 |
| 1.397 | GRADIENT | -.00732 | -.00757 | -.00830 | -.00857 | -.00876 | -.00876 | -.00876 | -.00818 | .00610 | .00380 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 70.000 RUDDER = .000
RN/L = 5.000

RUN NO. 754/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .599 | -6.027 | -23790 | -23580 | -24170 | -23980 | -24830 | -24830 | -25400 | -27150 | -29450 | -01070 |
| .598 | -1.921 | -24680 | -24400 | -24780 | -24590 | -25260 | -25260 | -26180 | -27420 | -19740 | -08240 |
| .598 | -1.885 | -23820 | -24050 | -24150 | -24220 | -25170 | -25170 | -25800 | -26890 | -17560 | -11040 |
| .599 | .111 | -24570 | -24920 | -24920 | -24310 | -25550 | -25550 | -25520 | -26890 | -14600 | -13010 |
| .597 | .613 | -24660 | -24610 | -24490 | -24250 | -25370 | -25370 | -25910 | -27260 | -14200 | -14790 |
| .598 | 1.131 | -24730 | -24570 | -24540 | -24730 | -25730 | -25730 | -26440 | -27640 | -13080 | -15730 |
| .598 | 2.176 | -24470 | -24470 | -24540 | -24560 | -25370 | -25370 | -25960 | -27610 | -10440 | -18530 |
| .598 | 3.211 | -24760 | -24710 | -24780 | -25110 | -25300 | -25300 | -26220 | -27820 | -07590 | -21020 |
| .597 | 4.243 | -24710 | -24690 | -24450 | -24900 | -25330 | -25330 | -26440 | -27530 | -05650 | -23370 |
| .597 | 6.312 | -25620 | -25740 | -26040 | -25930 | -25910 | -25910 | -26660 | -27680 | -00300 | -28260 |
| | GRADIENT | -00062 | -00059 | .00002 | -00108 | -00010 | -00010 | -00074 | -00093 | -02313 | -02461 |

RUN NO. 751/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .800 | -6.065 | -25080 | -25380 | -25050 | -25210 | -26560 | -26560 | -27010 | -27100 | -34240 | -01870 |
| .799 | -1.946 | -25340 | -25660 | -25150 | -25230 | -26720 | -26720 | -27390 | -28560 | -24510 | -11970 |
| .800 | -.905 | -25430 | -25560 | -25920 | -25860 | -26880 | -26880 | -27850 | -29100 | -21780 | -14600 |
| .799 | .118 | -26110 | -26430 | -26410 | -26040 | -26930 | -26930 | -28020 | -29270 | -19030 | -17070 |
| .799 | .639 | -26060 | -26210 | -25870 | -26060 | -27080 | -27080 | -27680 | -29160 | -18350 | -18350 |
| .799 | 1.159 | -26560 | -26050 | -26290 | -26290 | -27480 | -27480 | -28090 | -29660 | -16810 | -19510 |
| .799 | 2.195 | -26110 | -25700 | -25550 | -26240 | -27260 | -27260 | -28020 | -29380 | -14620 | -22290 |
| .798 | 3.240 | -26250 | -27000 | -26630 | -26520 | -27440 | -27440 | -28610 | -30350 | -11850 | -24990 |
| .799 | 4.277 | -27080 | -26230 | -26500 | -26400 | -27590 | -27590 | -28480 | -29850 | -09700 | -27480 |
| .797 | 6.353 | -27550 | -27290 | -27080 | -27510 | -27690 | -27690 | -28990 | -30250 | -04200 | -32880 |
| | GRADIENT | -00235 | -00130 | -00160 | -00172 | -00140 | -00140 | -00169 | -00226 | -02369 | -02498 |

RUN NO. 749/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .901 | -6.087 | -27960 | -28380 | -27690 | -28070 | -32200 | -32200 | -33520 | -34180 | -38500 | -05680 |
| .901 | -1.955 | -26950 | -27400 | -27430 | -27380 | -33300 | -33300 | -34290 | -34530 | -28820 | -15800 |
| .900 | -.906 | -27410 | -27750 | -27360 | -27820 | -33800 | -33800 | -34210 | -34890 | -26200 | -18310 |
| .901 | .125 | -15440 | -26050 | -02330 | -01640 | -33290 | -33290 | -33800 | -34890 | -23900 | -21090 |
| .902 | .653 | -27910 | -27650 | -27460 | -27500 | -33410 | -33410 | -34210 | -34130 | -22480 | -22310 |
| .902 | 1.165 | -27180 | -27440 | -27300 | -27160 | -32410 | -32410 | -33010 | -33250 | -21600 | -23980 |
| .902 | 2.210 | -27760 | -27430 | -27110 | -27910 | -33340 | -33340 | -34050 | -34590 | -18990 | -26520 |
| .901 | 3.258 | -28060 | -28820 | -28820 | -28800 | -33290 | -33290 | -34490 | -34260 | -16540 | -29230 |
| .899 | 4.297 | -28790 | -29720 | -29630 | -29580 | -34970 | -34970 | -35880 | -35310 | -14050 | -31240 |
| .898 | 6.375 | -30530 | -29880 | -30710 | -29720 | -36390 | -36390 | -36440 | -35670 | -08780 | -36570 |
| | GRADIENT | -01613 | -00359 | -01123 | -01142 | -00139 | -00139 | -00190 | -01151 | -02347 | -02525 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1901

AMES 118-1-11 OAI45A 01

(E2F082) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA =
 AILRON =
 SPOBRK =
 RN/L =
 5.000 ELEVON = .000
 .000 BDFLAP = .000
 70.000 RUDDER = .000
 5.000

RUN NO. 744/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| .952 | -6.142 | -30500 | -30230 | -30100 | -29870 | -35410 | -35410 | -36260 | -37170 | .41860 | .08980 |
| .953 | -1.975 | -28220 | -28530 | -28350 | -27920 | -35070 | -35070 | -36610 | -36800 | .32690 | .19310 |
| .951 | -.932 | -28440 | -27910 | -28000 | -28300 | -34150 | -34150 | -35100 | -35990 | .29900 | .21640 |
| .950 | .137 | -28620 | -28420 | -28680 | -28580 | -33880 | -33880 | -34670 | -35470 | .27220 | .24370 |
| .951 | .618 | -28850 | -28350 | -28450 | -28810 | -34580 | -34580 | -34920 | -35000 | .25960 | .25420 |
| .950 | 1.143 | -28100 | -28630 | -29110 | -28930 | -33810 | -33810 | -35410 | -35270 | .24910 | .26890 |
| .951 | 2.203 | -28760 | -28990 | -28910 | -28870 | -34240 | -34240 | -35490 | -36240 | .22530 | .29710 |
| .950 | 3.252 | -29760 | -29920 | -29540 | -29440 | -35120 | -35120 | -37080 | -36600 | .20030 | .32280 |
| .950 | 4.290 | -30780 | -30570 | -30820 | -30320 | -35880 | -35880 | -38070 | -38600 | .17830 | .34810 |
| .949 | 6.362 | -30890 | -32350 | -31890 | -32170 | -38990 | -38990 | -39800 | -40740 | .12920 | .39910 |
| | GRADIENT | -00357 | -00373 | -00373 | -00333 | -00161 | -00161 | -00328 | -00273 | -.02356 | .02505 |

RUN NO. 741/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 1.201 | -6.095 | -32200 | -32020 | -32090 | -32020 | -32870 | -32870 | -33040 | -33150 | .54260 | .26180 |
| 1.199 | -1.954 | -31580 | -31420 | -31280 | -31310 | -31980 | -31980 | -32050 | -32290 | .45360 | .31500 |
| 1.199 | -.905 | -31910 | -31710 | -31840 | -32080 | -32030 | -32030 | -32520 | -32770 | .43150 | .33760 |
| 1.198 | .147 | -32040 | -31820 | -31890 | -31850 | -32510 | -32510 | -32870 | -32890 | .40830 | .36120 |
| 1.199 | .625 | -31450 | -31710 | -31720 | -31940 | -32040 | -32040 | -32540 | -32090 | .40010 | .37440 |
| 1.201 | 1.147 | -31480 | -31300 | -31480 | -31210 | -31940 | -31940 | -32350 | -32620 | .39090 | .38880 |
| 1.199 | 2.202 | -31520 | -31380 | -31160 | -31600 | -31760 | -31760 | -32200 | -32710 | .37090 | .41460 |
| 1.198 | 3.233 | -31370 | -31190 | -31090 | -31050 | -31620 | -31620 | -32380 | -32330 | .35120 | .43990 |
| 1.197 | 4.296 | -31870 | -31660 | -31630 | -31500 | -31590 | -31590 | -32310 | -33000 | .33180 | .46540 |
| 1.198 | 6.366 | -30220 | -30440 | -30620 | -30600 | -31010 | -31010 | -31020 | -31800 | .30250 | .52140 |
| | GRADIENT | .00021 | .00029 | .00044 | .00065 | .00095 | .00095 | .00006 | -.00030 | -.01932 | .02437 |

RUN NO. 736/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| 1.403 | -6.144 | -30740 | -30620 | -30590 | -30650 | -31220 | -31220 | -31380 | -31530 | .57430 | .35500 |
| 1.406 | -1.981 | -30790 | -30810 | -30830 | -30910 | -31370 | -31370 | -31560 | -31700 | .49690 | .42420 |
| 1.404 | .920 | -31060 | -30940 | -31120 | -31010 | -31460 | -31460 | -31740 | -31880 | .48210 | .43430 |
| 1.403 | .143 | -30940 | -30940 | -30850 | -31010 | -31390 | -31390 | -31650 | -31750 | .47500 | .44450 |
| 1.402 | .623 | -31110 | -31020 | -31110 | -31180 | -31430 | -31430 | -31690 | -31760 | .47100 | .44780 |
| 1.403 | 1.159 | -31140 | -31140 | -31060 | -30930 | -31260 | -31260 | -31500 | -31630 | .46830 | .45300 |
| 1.403 | 2.215 | -30420 | -30280 | -30280 | -30450 | -30780 | -30780 | -30890 | -30970 | .45890 | .46240 |
| 1.402 | 3.273 | -30100 | -30060 | -30200 | -30260 | -30480 | -30480 | -30740 | -30960 | .44470 | .48220 |
| 1.402 | 4.323 | -30170 | -30070 | -30290 | -30290 | -30240 | -30240 | -30410 | -30620 | .41710 | .50280 |
| 1.400 | 6.399 | -29290 | -29250 | -28990 | -29230 | -29110 | -29110 | -29370 | -29550 | .34660 | .55060 |
| | GRADIENT | .00159 | .00163 | .00160 | .00173 | .00208 | .00208 | .00217 | .00201 | -.01128 | .01195 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

AMES 118-1-11 OAI45A 01

(E2F083) (08 JUL 77)

REFERENCE DATA

SREF = 2630.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELEVON = .000 AILRON = .000
BDFLAP = .000 SPDBRK = 70.000
RN/L = 5.000

RUN NO. 756/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|--------|--------|--------|--------|--------|--------|---------|---------|
| .597 | -14.970 | -24540 | -24090 | -24110 | -24630 | -25520 | -25520 | -26320 | -27200 | .14910 | .13080 |
| .598 | -10.754 | -24250 | -24540 | -24560 | -24870 | -25320 | -25320 | -26200 | -27230 | .15010 | .13240 |
| .598 | -4.939 | -24320 | -24610 | -24420 | -24990 | -25770 | -25770 | -26100 | -27330 | .15070 | .12950 |
| .598 | -2.442 | -24700 | -24820 | -24920 | -24580 | -25370 | -25370 | -26290 | -27430 | .15290 | .13290 |
| .598 | .110 | -24570 | -24750 | -24680 | -24780 | -24910 | -24910 | -26300 | -27320 | .15340 | .13450 |
| .597 | 2.522 | -25180 | -24890 | -24280 | -24630 | -25820 | -25820 | -26340 | -27170 | .14790 | .12810 |
| .598 | 5.014 | -24400 | -24630 | -24370 | -24140 | -25070 | -25070 | -26200 | -27050 | .15140 | .13290 |
| .598 | 10.027 | -24360 | -24550 | -24620 | -24260 | -25030 | -25030 | -25950 | -26730 | .15140 | .13200 |
| .598 | 15.014 | -24120 | -24260 | -24140 | -24090 | -25300 | -25300 | -25680 | -27070 | .14910 | .12810 |
| .598 | 18.134 | -23710 | -23690 | -23670 | -23620 | -24320 | -24320 | -25140 | -26670 | .15310 | .13360 |
| | GRADIENT | -100100 | -100031 | .00027 | .00036 | .00010 | .00010 | .00030 | .00024 | -.00033 | -.00012 |

RUN NO. 747/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .902 | -14.993 | -27150 | -27010 | -26580 | -26850 | -34290 | -34290 | -34890 | -35410 | .23590 | .21190 |
| .901 | -10.754 | -27880 | -27080 | -27530 | -27550 | -33770 | -33770 | -34430 | -34980 | .23590 | .21210 |
| .901 | -4.954 | -27090 | -27400 | -27110 | -27420 | -33900 | -33900 | -34420 | -34900 | .23730 | .21050 |
| .900 | -2.434 | -27660 | -27790 | -27820 | -27930 | -33960 | -33960 | -34650 | -35510 | .23580 | .20980 |
| .901 | .096 | -27400 | -27250 | -27300 | -27160 | -33580 | -33580 | -34070 | -34840 | .23650 | .21100 |
| .901 | 2.505 | -26850 | -27140 | -27140 | -27090 | -32940 | -32940 | -33870 | -34330 | .24080 | .21290 |
| .901 | 5.024 | -27400 | -27320 | -27260 | -26930 | -33610 | -33610 | -34640 | -34950 | .23650 | .20980 |
| .901 | 10.011 | -27110 | -27460 | -26900 | -27360 | -32560 | -32560 | -33580 | -34920 | .23740 | .21250 |
| .901 | 15.022 | -26630 | -27040 | -27060 | -27270 | -32780 | -32780 | -33630 | -34550 | .23830 | .21000 |
| .901 | 18.125 | -26350 | -26640 | -25920 | -26800 | -31970 | -31970 | -33000 | -33120 | .24240 | .21220 |
| | GRADIENT | .00040 | .00053 | .00017 | .00070 | .00132 | .00132 | .00090 | .00096 | .00046 | .00034 |

RUN NO. 746/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| .951 | -14.976 | -29710 | -29390 | -29210 | -29250 | -34650 | -34650 | -36310 | -36870 | .27020 | .24490 |
| .951 | -10.736 | -28590 | -28700 | -28770 | -28970 | -34450 | -34450 | -35490 | -36300 | .27200 | .24510 |
| .952 | -4.961 | -28820 | -28890 | -28630 | -28810 | -34230 | -34230 | -35160 | -36300 | .27230 | .24530 |
| .951 | -2.434 | -28750 | -29000 | -28720 | -28700 | -34300 | -34300 | -34960 | -35080 | .27050 | .24360 |
| .951 | .103 | -28690 | -28450 | -28110 | -28500 | -34060 | -34060 | -34950 | -35380 | .27210 | .24380 |
| .951 | 2.496 | -28820 | -28690 | -28040 | -28720 | -34210 | -34210 | -34510 | -35330 | .27150 | .24280 |
| .951 | 5.033 | -28520 | -28220 | -28100 | -28090 | -33810 | -33810 | -34700 | -35170 | .27440 | .24350 |
| .952 | 10.019 | -28850 | -28770 | -28820 | -28420 | -34140 | -34140 | -34810 | -34700 | .27350 | .24260 |
| .952 | 15.022 | -28710 | -28920 | -28480 | -28420 | -33890 | -33890 | -34300 | -34490 | .27360 | .24310 |
| .950 | 18.134 | -29160 | -29160 | -28810 | -28910 | -34060 | -34060 | -34380 | -35200 | .27190 | .24050 |
| | GRADIENT | .00002 | .00045 | .00095 | .00018 | .00012 | .00012 | .00080 | .00038 | -.00004 | -.00030 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(E2F0B3) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA =
 ELEVON =
 BDFLAP =
 RN/L =
 5.000 BETA =
 .000 AILRON =
 .000 SPDRBK =
 5.000 70.000

| MACH | RUN NO. | 739/ 0 | RN/L = 5.04 | GRADIENT INTERVAL = -5.00/ 5.00 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|-------------|---------------------------------|--------|--------|--------|--------|-------|--------|
| 1.199 | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
| 1.199 | -31110 | -31150 | -30870 | -30950 | -31520 | -31520 | -32000 | -32370 | 41210 | 36240 |
| 1.199 | -31330 | -31520 | -31260 | -31450 | -31830 | -31830 | -32210 | -32540 | 41190 | 36190 |
| 1.199 | -31970 | -31410 | -31560 | -31590 | -32060 | -32060 | -32520 | -32690 | 41070 | 36060 |
| 1.199 | -32340 | -32000 | -31710 | -31740 | -32320 | -32320 | -32660 | -33050 | 40970 | 36000 |
| 1.200 | -31900 | -31830 | -31730 | -31600 | -32340 | -32340 | -32560 | -32700 | 41130 | 36060 |
| 1.200 | -32000 | -32170 | -31700 | -31830 | -32320 | -32320 | -32940 | -32930 | 41180 | 35990 |
| 1.199 | -32513 | -32000 | -31800 | -32030 | -32590 | -32590 | -33050 | -32910 | 41010 | 35880 |
| 1.199 | 5.024 | -32070 | -31260 | -31470 | -31750 | -31750 | -32230 | -32180 | 41180 | 36020 |
| 1.200 | 10.011 | -30920 | -30800 | -30720 | -31450 | -31450 | -32020 | -32070 | 41220 | 36120 |
| 1.199 | 15.022 | -30850 | -30270 | -30270 | -31110 | -31110 | -31740 | -31860 | 41300 | 36150 |
| 1.201 | 18.116 | -30150 | -30270 | -30270 | -31110 | -31110 | -31740 | -31860 | 41300 | 36150 |
| | GRADIENT | -30086 | -30018 | -30024 | -30032 | -30032 | -30047 | -30016 | 40020 | -30006 |

| MACH | RUN NO. | 738/ 0 | RN/L = 5.02 | GRADIENT INTERVAL = -5.00/ 5.00 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|-------------|---------------------------------|--------|---|--------|--------|--------|--------|
| 1.404 | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 <td>CP243</td> <td>CP246</td> <td>CP12</td> <td>CP13</td> | CP243 | CP246 | CP12 | CP13 |
| 1.403 | -30860 | -30820 | -30850 | -30820 | -31300 | -31300 | -31430 | -31730 | 47710 | 44540 |
| 1.403 | -31160 | -31120 | -31130 | -31150 | -31480 | -31480 | -31680 | -31810 | 47330 | 44460 |
| 1.403 | -31500 | -31290 | -31230 | -31360 | -31620 | -31620 | -31830 | -31930 | 47540 | 44490 |
| 1.403 | -31140 | -31030 | -30990 | -31140 | -31240 | -31240 | -31680 | -31780 | 47640 | 44680 |
| 1.404 | -30880 | -30940 | -31040 | -31010 | -31290 | -31290 | -31530 | -31660 | 47680 | 44490 |
| 1.402 | -31300 | -31270 | -31170 | -31290 | -31630 | -31630 | -31900 | -32020 | 47470 | 44380 |
| 1.404 | -31010 | -31010 | -31030 | -31160 | -31360 | -31360 | -31600 | -31780 | 47680 | 44700 |
| 1.404 | -30940 | -30910 | -30890 | -31040 | -31440 | -31440 | -31550 | -31790 | 47640 | 44450 |
| 1.404 | -30630 | -30670 | -30770 | -30750 | -31080 | -31080 | -31230 | -31440 | 47550 | 44490 |
| 1.403 | 14.785 | -30370 | -30370 | -30370 | -30820 | -30820 | -31070 | -31240 | 47550 | 44380 |
| 1.404 | 18.107 | -30300 | -30300 | -30300 | -30820 | -30820 | -31070 | -31240 | 47550 | 44380 |
| | GRADIENT | .00034 | .00005 | .00013 | .00004 | .00004 | .00003 | .00007 | -30007 | -30021 |

DATE 10 MAR 80

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(E2F084) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPOBRK = 70.000 RUDDER = -5.000
 RN/L = 5.000

RUN NO. 755/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .597 | -6.047 | -24540 | -24640 | -24040 | -24420 | -25680 | -25680 | -26010 | -26910 | .29420 | -.01640 |
| .597 | -1.913 | -24410 | -24380 | -24570 | -23860 | -25240 | -25240 | -25660 | -26910 | .20170 | .08520 |
| .597 | -.877 | -24480 | -24760 | -24740 | -24330 | -25550 | -25550 | -26330 | -27820 | .17560 | .11010 |
| .598 | .120 | -23990 | -24250 | -24930 | -24720 | -25200 | -25200 | -26500 | -27160 | .14890 | .13300 |
| .598 | .618 | -25080 | -24250 | -24660 | -24770 | -25750 | -25750 | -26690 | -27730 | .13820 | .14410 |
| .597 | 1.134 | -24770 | -24360 | -24270 | -24600 | -25320 | -25320 | -26080 | -27540 | .12960 | .16000 |
| .597 | 2.181 | -24300 | -24090 | -24590 | -24660 | -25630 | -25630 | -26320 | -27730 | .09940 | .18340 |
| .597 | 3.214 | -25260 | -24690 | -25070 | -24880 | -25830 | -25830 | -26520 | -28340 | .07510 | .20770 |
| .597 | 4.250 | -25340 | -24770 | -25100 | -24650 | -25800 | -25800 | -26580 | -27670 | .05310 | .23260 |
| .597 | 6.315 | -25500 | -25590 | -25620 | -25810 | -25550 | -25550 | -26680 | -28480 | .00270 | .28540 |
| .597 | GRADIENT | -.00154 | -.00034 | -.00068 | -.00113 | -.00089 | -.00089 | -.00096 | -.00132 | -.02422 | .02397 |

RUN NO. 750/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| .902 | -6.080 | -27640 | -27730 | -27020 | -27860 | -32370 | -32370 | -32810 | -33730 | .38440 | .05800 |
| .903 | -1.943 | -26640 | -26800 | -27020 | -27400 | -33100 | -33100 | -33880 | -34850 | .29210 | .16100 |
| .900 | -.900 | -27350 | -27610 | -27270 | -27650 | -33620 | -33620 | -34590 | -35140 | .26240 | .18490 |
| .902 | .156 | -27980 | -27840 | -26990 | -27530 | -33810 | -33810 | -34420 | -35100 | .23660 | .21150 |
| .899 | .677 | -27560 | -28270 | -28470 | -28080 | -33310 | -33310 | -34620 | -35340 | .22560 | .22330 |
| .902 | 1.181 | -27900 | -28180 | -28350 | -27680 | -33420 | -33420 | -33690 | -34460 | .21650 | .23830 |
| .900 | 2.221 | -28900 | -28350 | -28300 | -29170 | -33250 | -33250 | -33600 | -34300 | .18880 | .26410 |
| .901 | 3.264 | -28390 | -28540 | -28030 | -28310 | -34580 | -34580 | -34410 | -34850 | .16560 | .28930 |
| .900 | 4.303 | -29460 | -29430 | -28570 | -29840 | -35160 | -35160 | -35210 | -36320 | .14340 | .31490 |
| .898 | 6.381 | -30670 | -30460 | -30520 | -30290 | -36470 | -36470 | -37200 | -37070 | .08810 | .36870 |
| .898 | GRADIENT | -.00398 | -.00347 | -.00245 | -.00354 | -.00265 | -.00265 | -.00091 | -.00098 | -.02358 | .02485 |

RUN NO. 745/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| .950 | -6.095 | -29780 | -29680 | -29740 | -29980 | -35840 | -35840 | -36300 | -37210 | .41680 | .08840 |
| .952 | -1.962 | -28180 | -28330 | -28400 | -28630 | -35270 | -35270 | -36090 | -37630 | .32570 | .19260 |
| .951 | -.924 | -28070 | -28220 | -27740 | -28490 | -34030 | -34030 | -35030 | -35410 | .29930 | .21890 |
| .951 | .150 | -28570 | -28520 | -28600 | -28650 | -33970 | -33970 | -34880 | -35710 | .27110 | .24460 |
| .952 | .627 | -28420 | -28050 | -28830 | -28790 | -34710 | -34710 | -35360 | -35580 | .26190 | .25640 |
| .951 | 1.155 | -28760 | -28760 | -28910 | -28430 | -34630 | -34630 | -35530 | -36010 | .24820 | .26850 |
| .950 | 2.211 | -28470 | -28080 | -29120 | -29430 | -35070 | -35070 | -35530 | -36320 | .22420 | .29460 |
| .950 | 3.255 | -30570 | -30520 | -30320 | -30590 | -36280 | -36280 | -37020 | -39300 | .19830 | .32020 |
| .950 | 4.292 | -30400 | -30410 | -29950 | -30890 | -37480 | -37480 | -36940 | -37420 | .17720 | .34610 |
| .947 | 6.365 | -33300 | -33100 | -33320 | -33490 | -40010 | -40010 | -40510 | -42280 | .12180 | .39710 |
| .947 | GRADIENT | -.00402 | -.00367 | -.00354 | -.00408 | -.00423 | -.00423 | -.00252 | -.00213 | -.02380 | .02443 |

DATE 10 MAR 80

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(E2F084) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 70.000 RUDDER = -5.000
 RN/L = 5.000

RUN NO. 740/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| 1.201 | -6.121 | -32800 | -32560 | -32590 | -32520 | -33110 | -33110 | -32940 | -33360 | .54540 | .26190 |
| 1.200 | -1.949 | -31770 | -31680 | -32010 | -32090 | -32060 | -32060 | -32380 | -32700 | .45400 | .31510 |
| 1.200 | -.897 | -31900 | -31850 | -32030 | -32160 | -32200 | -32200 | -32500 | -33110 | .43140 | .33780 |
| 1.198 | .154 | -31670 | -31700 | -31860 | -31870 | -31900 | -31900 | -32630 | -32870 | .40930 | .36150 |
| 1.199 | .628 | -31560 | -31800 | -31610 | -31670 | -32220 | -32220 | -32760 | -33120 | .39930 | .37260 |
| 1.200 | 1.159 | -31280 | -31350 | -31110 | -31070 | -31990 | -31990 | -32150 | -32500 | .39000 | .38760 |
| 1.199 | 2.208 | -31470 | -31180 | -31170 | -31110 | -31640 | -31640 | -31920 | -32440 | .37090 | .41350 |
| 1.199 | 3.257 | -31080 | -30940 | -31440 | -31010 | -31810 | -31810 | -31900 | -32170 | .35030 | .43850 |
| 1.199 | 4.304 | -31410 | -31290 | -31550 | -31620 | -31430 | -31430 | -32090 | -32510 | .33200 | .46550 |
| 1.199 | 6.372 | -31120 | -30980 | -31150 | -31110 | -31680 | -31680 | -31800 | -32290 | .29870 | .51810 |
| 1.197 | GRADIENT | .00100 | .00125 | .00110 | .00153 | .00105 | .00105 | .00110 | .00106 | -.01942 | .02424 |

RUN NO. 737/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| 1.400 | -6.137 | -30900 | -30700 | -30770 | -30770 | -31410 | -31410 | -31510 | -31590 | .57430 | .35200 |
| 1.406 | -1.989 | -31020 | -30940 | -31170 | -31030 | -31580 | -31580 | -31780 | -31780 | .49700 | .42340 |
| 1.404 | -.928 | -31140 | -31030 | -31020 | -31070 | -31490 | -31490 | -31720 | -31960 | .48440 | .43370 |
| 1.403 | .138 | -31040 | -31200 | -30980 | -31040 | -31410 | -31410 | -31600 | -31760 | .47620 | .44620 |
| 1.403 | .619 | -31210 | -30960 | -30930 | -31010 | -31300 | -31300 | -31470 | -31720 | .47160 | .44820 |
| 1.402 | 1.151 | -30960 | -31010 | -30840 | -30970 | -31100 | -31100 | -31520 | -31720 | .46920 | .45290 |
| 1.403 | 2.206 | -30280 | -30240 | -30220 | -30300 | -30570 | -30570 | -30820 | -31040 | .46210 | .46400 |
| 1.403 | 3.260 | -30170 | -30260 | -30110 | -30140 | -30330 | -30330 | -30480 | -30830 | .44520 | .48290 |
| 1.402 | 4.305 | -30000 | -30070 | -30130 | -29980 | -30200 | -30200 | -30260 | -30660 | .41570 | .50320 |
| 1.402 | 6.393 | -29170 | -29170 | -29190 | -29200 | -29230 | -29230 | -29670 | -29780 | .34430 | .54710 |
| 1.399 | GRADIENT | .00203 | .00177 | .00197 | .00200 | .00252 | .00252 | .00259 | .00219 | -.01149 | .01218 |

(E2F085) (08 JUL 77)

AMES 118-1-11 DA145A 01

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

BETA =
 AILRON =
 SPDBRK =
 RN/L =

.000 ELEVON =
 .000 BOFLAP =
 87.200 RUDDER =
 5.000

.000
 .000
 .000

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .597 | -5.025 | -29810 | -29640 | -29810 | -29780 | -27860 | -27860 | -28110 | -28200 | -04180 | -03840 |
| .598 | -0.013 | -28190 | -28210 | -28410 | -28210 | -25580 | -25580 | -25510 | -25800 | 08040 | 06820 |
| .597 | 2.523 | -28040 | -28460 | -28060 | -28190 | -27210 | -27210 | -27380 | -27820 | 12370 | 10070 |
| .596 | 5.037 | -37110 | -26410 | 03420 | 03890 | -28100 | -28100 | -28880 | 00000 | 15240 | 13000 |
| .596 | 7.078 | -28310 | -28460 | -27870 | -28210 | -29180 | -29180 | -29720 | -32280 | 17140 | 14190 |
| .597 | 8.133 | -27930 | -27950 | -27360 | -27760 | -29580 | -29580 | -30320 | -33440 | 17180 | 14760 |
| .596 | 10.191 | -27940 | -27740 | -27550 | -28090 | -29790 | -29790 | -31960 | -35500 | 19050 | 15300 |
| .596 | 12.250 | -28260 | -27500 | -28750 | -28560 | -32510 | -32510 | -34360 | -37660 | 18110 | 13820 |
| .597 | 15.280 | -29660 | -29760 | -29120 | -29270 | -34040 | -34040 | -35690 | -37080 | 16600 | 12470 |
| | GRADIENT | .00059 | .00099 | .00138 | .00008 | .00643 | .00643 | .00738 | .00797 | .01708 | .01282 |

RUN NO. 450/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 460/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .803 | -5.427 | -30800 | -30440 | -30820 | -31160 | -29990 | -29990 | -29780 | -30150 | .01230 | .01580 |
| .802 | -0.001 | -28740 | -29180 | -29410 | -29070 | -28430 | -28430 | -28360 | -28600 | .01230 | .11080 |
| .802 | 2.583 | -28760 | -28610 | -28700 | -28680 | -29010 | -29010 | -28690 | -30180 | .17030 | .14350 |
| .799 | 4.995 | -28730 | -28800 | -28460 | -29030 | -29400 | -29400 | -29790 | -31390 | .17030 | .16530 |
| .798 | 7.020 | -28590 | -28590 | -28900 | -29170 | -30060 | -30060 | -32630 | -33890 | .21910 | .18690 |
| .799 | 8.036 | -29400 | -28710 | -29040 | -29210 | -31170 | -31170 | -32120 | -34360 | .22150 | .18870 |
| .801 | 9.951 | -29240 | -28320 | -28970 | -29430 | -32220 | -32220 | -33800 | -34600 | .23940 | .19590 |
| .800 | 11.965 | -29830 | -29870 | -30050 | -29260 | -35160 | -35160 | -35480 | -36480 | .23810 | .19130 |
| .797 | 14.829 | -32320 | -32070 | -32510 | -33570 | -39850 | -39850 | -40980 | -40790 | .23370 | .18050 |
| | GRADIENT | .00002 | .00078 | .00191 | .00010 | .00195 | .00195 | .00284 | .00559 | .01343 | .01093 |

RUN NO. 462/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 462/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .903 | -5.893 | -32800 | -32940 | -33140 | -33190 | -32950 | -32950 | -33810 | -33890 | .07450 | .07540 |
| .902 | -5.051 | -33020 | -32920 | -32610 | -32900 | -33100 | -33100 | -32390 | -32830 | .08770 | .08550 |
| .903 | -8.19 | -30800 | -30370 | -30820 | -30370 | -31050 | -31050 | -31100 | -31490 | .17190 | .15090 |
| .902 | 4.437 | -30620 | -30860 | -30560 | -30350 | -31490 | -31490 | -31460 | -31760 | .18930 | .16450 |
| .903 | 2.032 | -30540 | -30160 | -30230 | -29830 | -31740 | -31740 | -32930 | -33100 | .21360 | .18590 |
| .901 | 4.550 | -30240 | -30490 | -29850 | -29920 | -34470 | -34470 | -34900 | -35710 | .24080 | .20640 |
| .898 | 6.778 | -30880 | -30080 | -30960 | -30630 | -35590 | -35590 | -35880 | -36270 | .26380 | .21990 |
| .901 | 8.231 | -30880 | -31040 | -31770 | -31290 | -36260 | -36260 | -37020 | -38150 | .27390 | .23420 |
| .901 | 10.229 | -31080 | -31800 | -31020 | -32090 | -37490 | -37490 | -38220 | -38500 | .28270 | .23470 |
| .902 | 12.171 | -32390 | -32760 | -32320 | -33010 | -38350 | -38350 | -39510 | -39900 | .28870 | .23920 |
| .902 | 14.807 | -35470 | -35470 | -35380 | -35380 | -42610 | -42610 | -43540 | -44690 | .28740 | .23330 |
| | GRADIENT | .00100 | .00018 | .00181 | .00099 | .00628 | .00628 | .00739 | .00817 | .01290 | .01046 |

DATE 10 MAR 80

OAI145 TABULATED FORCE DATA

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(E2F085) (08 JUL 77)

AMES 118-1-11 OAI145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. YO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 87.200 RUDDER = .000
 RN/L = 5.000

RUN NO. 473/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .952 | -5.204 | -35830 | -35420 | -35630 | -35900 | -41640 | -41640 | -41550 | -42640 | .13210 | .13040 |
| .952 | -1.133 | -34420 | -34240 | -34300 | -34400 | -38070 | -38070 | -38900 | -40010 | .21790 | .19430 |
| .951 | 2.324 | -33370 | -33080 | -33370 | -33320 | -38670 | -38670 | -39230 | -40000 | .24800 | .21760 |
| .948 | 4.840 | -32740 | -32620 | -32300 | -32350 | -37590 | -37590 | -38280 | -38480 | .23430 | .23430 |
| .950 | 6.837 | -31340 | -31540 | -31420 | -31300 | -37220 | -37220 | -38110 | -38410 | .29880 | .25150 |
| .949 | 7.798 | -31620 | -31210 | -31720 | -31380 | -37460 | -37460 | -37760 | -38580 | .29930 | .25740 |
| .951 | 9.875 | -31540 | -31420 | -31370 | -31920 | -38690 | -38690 | -38620 | -38770 | .31300 | .26380 |
| .950 | 12.068 | -32590 | -32650 | -33380 | -33120 | -40680 | -40680 | -40690 | -41310 | .31710 | .26140 |
| .950 | 15.131 | -35880 | -35630 | -36020 | -36660 | -43480 | -43480 | -44860 | -45180 | .31610 | .25810 |
| | GRADIENT | .00337 | .00325 | .00402 | .00412 | .00098 | .00098 | .00126 | .00309 | .01081 | .00804 |

RUN NO. 486/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.103 | -5.182 | -34100 | -34140 | -34250 | -34080 | -34290 | -34290 | -34340 | -34960 | .29220 | .29470 |
| 1.103 | -1.165 | -33170 | -33090 | -33360 | -33090 | -33230 | -33230 | -33490 | -34200 | .35480 | .32870 |
| 1.104 | 2.139 | -33720 | -33580 | -33530 | -33660 | -33930 | -33930 | -34460 | -35060 | .37600 | .34380 |
| 1.103 | 2.417 | -33670 | -34060 | -33640 | -33690 | -33740 | -33740 | -34290 | -35570 | .37970 | .34790 |
| 1.102 | 5.122 | -32440 | -28260 | -03080 | -05750 | -36380 | -36380 | -36670 | .00000 | .40000 | .36010 |
| 1.105 | 7.184 | -35610 | -36080 | -35870 | -35980 | -36250 | -36250 | -36370 | -36670 | .41570 | .36650 |
| 1.105 | 8.157 | -36240 | -35900 | -36100 | -36620 | -36680 | -36680 | -36990 | -37020 | .41630 | .37020 |
| 1.101 | 10.153 | -37940 | -37530 | -37380 | -37610 | -38070 | -38070 | -38540 | -39150 | .42340 | .37770 |
| 1.102 | 12.177 | -37770 | -37760 | -38020 | -37900 | -39410 | -39410 | -40140 | -40170 | .42650 | .37190 |
| 1.101 | 15.161 | -38940 | -38960 | -39280 | -39440 | -41120 | -41120 | -41200 | -42110 | .41630 | .35960 |
| | GRADIENT | .00211 | .00313 | .00095 | .00238 | .00239 | .00239 | .00353 | .00470 | .00947 | .00709 |

RUN NO. 489/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.199 | -5.188 | -23010 | -29050 | -29050 | -29080 | -28730 | -28730 | -28860 | -29310 | .33330 | .34370 |
| 1.202 | -1.152 | -29900 | -29900 | -29830 | -29840 | -29180 | -29180 | -29330 | -30330 | .38640 | .35590 |
| 1.199 | 2.417 | -31270 | -31330 | -31290 | -31020 | -31550 | -31550 | -31780 | -32280 | .40180 | .35450 |
| 1.198 | 4.998 | -33070 | -33180 | -33040 | -33000 | -33250 | -33250 | -33510 | -33640 | .41510 | .36090 |
| 1.200 | 7.061 | -33750 | -33430 | -33590 | -33700 | -33450 | -33450 | -33650 | -33730 | .43250 | .36650 |
| 1.198 | 8.095 | -34330 | -34690 | -34560 | -34400 | -34610 | -34610 | -34680 | -34870 | .43000 | .36530 |
| 1.196 | 10.130 | -34490 | -34330 | -34380 | -34770 | -34720 | -34720 | -34990 | -35380 | .43700 | .36810 |
| 1.199 | 12.156 | -34800 | -34270 | -34300 | -34470 | -34470 | -34470 | -35240 | -35350 | .44320 | .37070 |
| 1.198 | 15.171 | -34330 | -34460 | -34560 | -34280 | -34550 | -34550 | -35100 | -35060 | .44360 | .36640 |
| | GRADIENT | .00616 | .00637 | .00623 | .00614 | .00790 | .00790 | .00810 | .00643 | .00557 | .00097 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(E2F0B5) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LRLF = 474.8100 INCHES YMRP = .0000 IN. YO
 BRFL = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

BETA =
 AILRON =
 SPDBRK =
 RN/L =

ELEVON = .000
 BDFLAP = .000
 RUDDER = .000

PARAMETRIC DATA

RUN NO. 500/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CR225 | CR228 | CR231 | CR234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 1.403 | -5.076 | -.26660 | -.26790 | -.26760 | -.26840 | -.27470 | -.27470 | -.27710 | -.28000 | .39750 | .42940 |
| 1.404 | -.035 | -.28890 | -.28850 | -.28910 | -.28990 | -.29070 | -.29070 | -.29070 | -.29530 | .44420 | .43910 |
| 1.403 | 2.494 | -.30570 | -.30390 | -.30400 | -.30570 | -.30700 | -.30700 | -.30810 | -.31110 | .46020 | .44680 |
| 1.401 | 5.092 | -.31810 | -.32050 | -.31890 | -.32050 | -.32130 | -.32130 | -.32220 | -.32520 | .48150 | .44610 |
| 1.400 | 7.150 | -.33350 | -.33320 | -.33290 | -.33320 | -.33020 | -.33020 | -.33270 | -.33410 | .49230 | .45190 |
| 1.400 | 8.189 | -.33270 | -.33470 | -.33360 | -.33450 | -.33230 | -.33230 | -.33240 | -.33500 | .49880 | .45650 |
| 1.401 | 10.210 | -.33540 | -.33730 | -.33650 | -.33830 | -.33130 | -.33130 | -.33230 | -.33480 | .49680 | .45920 |
| 1.401 | 12.263 | -.34050 | -.34230 | -.34180 | -.34190 | -.33120 | -.33120 | -.33260 | -.33510 | .50070 | .45220 |
| 1.400 | 15.283 | -.34090 | -.34200 | -.34270 | -.34090 | -.32470 | -.32470 | -.32560 | -.32710 | .50630 | .45650 |
| 1.394 | GRADIENT | -.00664 | -.00609 | -.00589 | -.00625 | -.00645 | -.00645 | -.00688 | -.00625 | .00633 | .00305 |

AMES 118-1-11 OAI45A 01

(E2F0B6) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LRLF = 474.8100 INCHES YMRP = .0000 IN. YO
 BRFL = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

BETA =
 AILRON =
 SPDBRK =
 RN/L =

ELEVON = .000
 BDFLAP = .000
 RUDDER = .000

PARAMETRIC DATA

RUN NO. 880/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CR240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .596 | -5.107 | -.26440 | -.06630 | -.00690 |
| .591 | -.336 | -.24450 | .04100 | .10500 |
| .598 | 2.187 | -.25840 | .08110 | .14610 |
| .597 | 4.747 | -.26290 | .10590 | .18060 |
| .597 | 7.835 | -.27760 | .12580 | .19940 |
| .597 | 9.902 | -.27780 | .13740 | .20720 |
| .596 | 11.941 | -.29690 | .13030 | .20320 |
| .597 | 14.920 | -.33260 | .11180 | .19140 |
| .597 | 16.887 | -.35920 | .08240 | .17510 |
| .597 | 18.940 | -.39010 | .05340 | .15080 |
| | GRADIENT | -.00362 | .01276 | .01487 |

OAI45 TABULATED FORCE DATA

AMES 118-1-11 OAI45A 01

DATE 10 MAR 80

(E2F086) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BOFLAP = .000
SPDBRK = 87.200 RUDDER = .000
RN/L = 5.000

| RUN NO. | 879/ 0 | MACH | ALPHA | CP240 | CP12 | CP13 | GRADIENT INTERVAL | -5.00/ 5.00 |
|---------|--------|------|----------|---------|---------|--------|-------------------|-------------|
| | | .798 | -5.072 | -.28470 | -.00740 | .05830 | | |
| | | .801 | -.335 | -.27110 | .08990 | .15270 | | |
| | | .798 | 2.218 | -.28030 | .11780 | .18650 | | |
| | | .798 | 4.773 | -.28170 | .14560 | .21460 | | |
| | | .797 | 7.853 | -.30080 | .16960 | .23790 | | |
| | | .796 | 9.895 | -.32120 | .17830 | .24580 | | |
| | | .796 | 11.940 | -.35610 | .17990 | .24500 | | |
| | | .797 | 14.908 | -.39810 | .16660 | .24360 | | |
| | | .797 | 16.909 | -.44260 | .14920 | .23310 | | |
| | | .798 | 18.948 | -.45310 | .12990 | .22070 | | |
| | | | GRADIENT | -.00207 | .01090 | .01212 | | |

| RUN NO. | 878/ 0 | MACH | ALPHA | CP240 | CP12 | CP13 | GRADIENT INTERVAL | -5.00/ 5.00 |
|---------|--------|------|----------|---------|--------|--------|-------------------|-------------|
| | | .898 | -5.068 | -.31540 | .05600 | .12020 | | |
| | | .901 | -.289 | -.30060 | .13730 | .20220 | | |
| | | .902 | 2.220 | -.30580 | .16890 | .23640 | | |
| | | .899 | 4.773 | -.33460 | .19240 | .25610 | | |
| | | .899 | 7.835 | -.35810 | .21490 | .27960 | | |
| | | .900 | 9.895 | -.36450 | .22670 | .28970 | | |
| | | .897 | 11.985 | -.40610 | .22260 | .28430 | | |
| | | .900 | 14.931 | -.44180 | .22130 | .28840 | | |
| | | .898 | 16.941 | -.47620 | .19920 | .27920 | | |
| | | .899 | 18.969 | -.47550 | .18550 | .27070 | | |
| | | | GRADIENT | -.00673 | .01088 | .01064 | | |

| RUN NO. | 877/ 0 | MACH | ALPHA | CP240 | CP12 | CP13 | GRADIENT INTERVAL | -5.00/ 5.00 |
|---------|--------|------|----------|---------|--------|--------|-------------------|-------------|
| | | .950 | -5.043 | -.39020 | .10450 | .16840 | | |
| | | .951 | -.099 | -.37310 | .17640 | .24050 | | |
| | | .950 | 2.423 | -.37950 | .20440 | .26830 | | |
| | | .950 | 4.841 | -.35060 | .22800 | .28950 | | |
| | | .950 | 8.029 | -.36800 | .24970 | .31030 | | |
| | | .950 | 10.003 | -.38680 | .25740 | .31790 | | |
| | | .951 | 11.929 | -.40300 | .26460 | .32200 | | |
| | | .951 | 14.958 | -.44410 | .25750 | .32020 | | |
| | | .950 | 17.044 | -.46710 | .23860 | .31500 | | |
| | | .950 | 19.032 | -.46680 | .22590 | .30510 | | |
| | | | GRADIENT | -.00450 | .01045 | .00993 | | |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(E2F086) (06 MAR 80)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

BETA = 2.000 ELEVON = .000
AILRON = .000 BOFLAP = .000
SPOBRK = 87.200 RUDDER = .000
RN/L = 5.000

PARAMETRIC DATA

RUN NO. 875/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|-------|----------|---------|--------|--------|
| 1.198 | -5.071 | -.26600 | .30220 | .37230 |
| 1.198 | -.056 | -.27380 | .34760 | .39550 |
| 1.198 | 2.484 | -.29310 | .36230 | .40360 |
| 1.199 | 5.027 | -.31700 | .37860 | .41020 |
| 1.199 | 8.028 | -.34140 | .38410 | .41710 |
| 1.197 | 10.036 | -.34790 | .38950 | .42330 |
| 1.197 | 12.014 | -.36310 | .39150 | .42060 |
| 1.197 | 14.974 | -.34060 | .39160 | .42480 |
| 1.197 | 16.927 | -.35450 | .38560 | .42440 |
| 1.197 | 19.007 | -.35750 | .38300 | .42180 |
| | GRADIENT | -.00760 | .00579 | .00319 |

RUN NO. 875/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|-------|----------|---------|--------|--------|
| 1.298 | -5.014 | -.26250 | .34570 | .40490 |
| 1.296 | -.008 | -.28000 | .37240 | .42000 |
| 1.297 | 2.520 | -.29930 | .39240 | .42170 |
| 1.296 | 5.036 | -.32700 | .41290 | .42050 |
| 1.295 | 8.107 | -.34430 | .41270 | .42410 |
| 1.295 | 10.075 | -.34940 | .41890 | .42530 |
| 1.294 | 12.064 | -.34740 | .42200 | .42850 |
| 1.292 | 15.030 | -.35320 | .42540 | .43440 |
| 1.290 | 16.880 | -.34790 | .42160 | .43610 |
| 1.289 | 18.699 | -.34280 | .41760 | .43590 |
| | GRADIENT | -.00764 | .00791 | .00067 |

RUN NO. 874/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|-------|----------|---------|--------|--------|
| 1.403 | -5.265 | -.25100 | .35960 | .45890 |
| 1.404 | -.038 | -.27490 | .40820 | .46300 |
| 1.403 | 2.501 | -.29220 | .42880 | .46520 |
| 1.401 | 5.076 | -.31090 | .46600 | .46220 |
| 1.401 | 8.063 | -.32450 | .46230 | .46550 |
| 1.400 | 10.019 | -.32710 | .47220 | .47410 |
| 1.399 | 11.990 | -.32920 | .47610 | .47710 |
| 1.397 | 14.986 | -.32870 | .48010 | .47240 |
| 1.391 | 16.845 | -.32700 | .47550 | .47760 |
| 1.388 | 18.766 | -.32390 | .46020 | .48050 |
| | GRADIENT | -.00681 | .00811 | .00087 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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(E2F087) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
 AILRON = .000 BDELAP = .000
 SPDBRK = 87.200 RUDDER = .000
 RN/L = 5.000

RUN NO. 457/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .598 | -6.191 | -.26490 | .20400 | -.06090 |
| .598 | -2.105 | -.26150 | .12370 | .02160 |
| .598 | -1.061 | -.25780 | .10320 | .04600 |
| .598 | .011 | -.25940 | .08050 | .06470 |
| .598 | .529 | -.25820 | .06950 | .07650 |
| .598 | 1.051 | -.25520 | .06190 | .08990 |
| .598 | 2.108 | -.25990 | .03990 | .10690 |
| .598 | 3.146 | -.25640 | .01920 | .13090 |
| .598 | 4.180 | -.25680 | .00280 | .14830 |
| .598 | 6.237 | -.25830 | -.03690 | .19310 |
| .597 | 8.287 | -.25780 | -.08080 | .23340 |
| | GRADIENT | .00055 | -.01942 | .02016 |

RUN NO. 458/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .804 | -6.237 | -.28980 | .25900 | -.02260 |
| .805 | -2.127 | -.28380 | .17920 | .06770 |
| .804 | -1.072 | -.28770 | .15470 | .08700 |
| .804 | .004 | -.28430 | .13120 | .11120 |
| .805 | .532 | -.28370 | .12100 | .12460 |
| .804 | 1.055 | -.28750 | .11040 | .13400 |
| .803 | 2.122 | -.29010 | .08780 | .15560 |
| | GRADIENT | -.00102 | -.02139 | .02106 |

RUN NO. 468/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .902 | -6.265 | -.30960 | .31100 | .02830 |
| .903 | -2.133 | -.30460 | .22630 | .11530 |
| .901 | -1.075 | -.31210 | .20070 | .13290 |
| .901 | .009 | -.31480 | .17900 | .15610 |
| .903 | .532 | -.31560 | .17020 | .16840 |
| .901 | 1.057 | -.31740 | .15800 | .17930 |
| .901 | 2.124 | -.32220 | .13660 | .20240 |
| .902 | 3.175 | -.31490 | .11670 | .23020 |
| .901 | 4.220 | -.32870 | .09610 | .25000 |
| .899 | 6.300 | -.34260 | .05830 | .29590 |
| .898 | 8.369 | -.38400 | .01070 | .33460 |
| | GRADIENT | -.00286 | -.02026 | .02175 |

OAI45 TABULATED FORCE DATA

(E2F087) (06 MAR 80)

DATE 10 MAR 80

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 87.200 RUDDER = .000
RN/L = 5.000

RUN NO. 479/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .951 | -6.264 | -.33970 | .35190 | .06570 |
| .954 | -2.133 | -.34870 | .26490 | .15300 |
| .952 | -1.072 | -.36120 | .23970 | .17230 |
| .951 | .013 | -.37680 | .21850 | .19280 |
| .953 | .537 | -.38110 | .20890 | .20720 |
| .951 | 1.064 | -.38710 | .19900 | .21730 |
| .951 | 2.133 | -.39400 | .17560 | .23910 |
| .952 | 3.186 | -.39930 | .15530 | .26340 |
| .950 | 4.230 | -.39970 | .13590 | .28370 |
| .949 | 6.314 | -.41290 | .09660 | .32910 |
| .947 | 8.381 | -.42700 | .05700 | .37080 |
| | GRADIENT | -.00823 | -.02014 | .02086 |

RUN NO. 506/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|--------|
| 1.198 | -6.271 | -.32290 | .50090 | .26090 |
| 1.202 | -2.126 | -.29450 | .42300 | .31510 |
| 1.199 | -1.071 | -.28720 | .40220 | .33170 |
| 1.199 | .013 | -.29080 | .38270 | .35160 |
| 1.200 | .536 | -.29110 | .37490 | .36260 |
| 1.199 | 1.063 | -.29110 | .36570 | .37310 |
| 1.199 | 2.131 | -.28840 | .34660 | .39450 |
| 1.198 | 3.186 | -.29550 | .32750 | .41290 |
| 1.199 | 4.234 | -.29540 | .31340 | .43370 |
| 1.196 | 6.322 | -.29400 | .28810 | .47900 |
| 1.197 | 8.400 | -.27170 | .25770 | .52840 |
| | GRADIENT | -.00057 | -.01731 | .01889 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 87.200 RUDDER = .000
RN/L = 5.000

RUN NO. 0/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .804 | -6.237 | -.29740 | -.29820 | -.29990 | -.29890 | -.28980 | -.28980 | -.28510 | -.29040 | -.25900 | -.02260 |
| .805 | -2.127 | -.29010 | -.28970 | -.28910 | -.28990 | -.28380 | -.28380 | -.28590 | -.28270 | .17920 | .06770 |
| .804 | -1.072 | -.29430 | -.29470 | -.29410 | -.29700 | -.28770 | -.28770 | -.28410 | -.28820 | .15470 | .08700 |
| .804 | .004 | -.30090 | -.30070 | -.29820 | -.29900 | -.28430 | -.28430 | -.28900 | -.29320 | .13120 | .11120 |
| .805 | .532 | -.29280 | -.29380 | -.29620 | -.29550 | -.28370 | -.28370 | -.28600 | -.28690 | .12100 | .12460 |
| .804 | 1.055 | -.29660 | -.29640 | -.29430 | -.29430 | -.28750 | -.28750 | -.28500 | -.28860 | .11040 | .13400 |
| .804 | 2.122 | -.29660 | -.29870 | -.28840 | -.29850 | -.28010 | -.28010 | -.28140 | -.28640 | .08780 | .15560 |
| .803 | GRADIENT | -.00130 | -.00173 | -.00002 | -.00133 | -.00102 | -.00102 | .00071 | -.00069 | -.02139 | .02106 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 87.200 RUDDER = .000
RN/L = 5.000

RUN NO. 447/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .598 | -6.052 | -.26910 | -.27590 | -.27590 | -.27300 | -.27790 | -.27790 | -.28200 | -.30310 | .29890 | -.01660 |
| .598 | -1.926 | -.27530 | -.27290 | -.27630 | -.27630 | -.27930 | -.27930 | -.28630 | -.29890 | .20620 | .08280 |
| .598 | -.885 | -.28170 | -.27510 | -.27920 | -.27600 | -.28050 | -.28050 | -.28700 | -.30130 | .17700 | .10840 |
| .598 | .027 | -.28290 | -.27930 | -.28110 | -.28180 | -.28120 | -.28120 | -.28310 | -.30570 | .15390 | .12980 |
| .598 | .495 | -.27910 | -.28200 | -.28030 | -.27490 | -.28360 | -.28360 | -.28480 | -.30080 | .14340 | .14100 |
| .598 | 1.011 | -.28150 | -.28020 | -.27490 | -.28170 | -.27890 | -.27890 | -.28520 | -.29970 | .13290 | .15760 |
| .597 | 2.076 | -.28240 | -.28210 | -.28360 | -.28240 | -.28490 | -.28490 | -.29190 | -.30800 | .10480 | .17990 |
| .598 | 3.119 | -.27940 | -.27940 | -.28050 | -.28140 | -.28430 | -.28430 | -.29190 | -.30490 | .08000 | .20820 |
| .597 | 4.152 | -.28740 | -.28300 | -.28620 | -.28470 | -.28720 | -.28720 | -.29520 | -.30710 | .05800 | .23030 |
| .597 | 6.214 | -.29350 | -.28930 | -.28980 | -.28930 | -.28860 | -.28860 | -.29860 | -.30900 | .00090 | .28270 |
| .597 | GRADIENT | -.00114 | -.00139 | -.00124 | -.00137 | -.00121 | -.00121 | -.00167 | -.00124 | -.02428 | .02449 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1915

AMES 118-1-11 OAI45A 01

(E2F088) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

ALPHA = 5.000 ELEVON = .000
 AILIRON = .000 BDFLAP = .000
 SPDBRK = 87.200 RUDDER = .000
 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 474/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| .952 | -6.098 | -31890 | -32160 | -31850 | -31850 | -35940 | -35940 | -35960 | -36840 | 42160 | 08540 |
| .953 | -1.971 | -31190 | -30830 | -31200 | -30920 | -36630 | -36630 | -37430 | -38080 | 32700 | 18990 |
| .951 | -.924 | -31270 | -31810 | -31570 | -31890 | -37090 | -37090 | -37950 | -38430 | 30170 | 21560 |
| .950 | .138 | -32290 | -32110 | -32020 | -32360 | -37350 | -37350 | -38750 | -39230 | 27520 | 24210 |
| .952 | .644 | -31600 | -31690 | -31890 | -32000 | -37090 | -37090 | -38520 | -38720 | 26560 | 25670 |
| .951 | 1.157 | -31610 | -31780 | -31980 | -31410 | -36840 | -36840 | -37590 | -36970 | 25420 | 26890 |
| .951 | 2.211 | -32220 | -32120 | -32030 | -32380 | -37170 | -37170 | -37660 | -38620 | 22800 | 29560 |
| .950 | 3.255 | -32870 | -33140 | -33290 | -32950 | -37800 | -37800 | -38470 | -39000 | 20120 | 32200 |
| .949 | 4.297 | -33720 | -33770 | -34460 | -33020 | -38980 | -38980 | -39500 | -39340 | 17700 | 34590 |
| .948 | 6.373 | -36160 | -35770 | -35710 | -35960 | -40150 | -40150 | -41000 | -41710 | 12840 | 40150 |
| | GRADIENT | -00173 | -00398 | -00456 | -00289 | -00286 | -00286 | -00205 | -00144 | -02390 | 02510 |

RUN NO. 487/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 1.103 | -6.118 | -37380 | -37410 | -37300 | -37310 | -37940 | -37940 | -38330 | -39010 | 53990 | 22020 |
| 1.102 | -1.959 | -35280 | -35150 | -35000 | -35350 | -36630 | -36630 | -37120 | -37590 | 44430 | 30860 |
| 1.103 | -.901 | -34730 | -34690 | -34920 | -34760 | -36640 | -36640 | -36770 | -37500 | 42220 | 33280 |
| 1.102 | .080 | -35070 | -34710 | -34710 | -35050 | -36320 | -36320 | -36790 | -37080 | 39840 | 35780 |
| 1.102 | .559 | -34730 | -34770 | -34910 | -34740 | -35820 | -35820 | -36490 | -36700 | 39080 | 37170 |
| 1.101 | 1.053 | -34960 | -35100 | -34940 | -34940 | -35720 | -35720 | -36040 | -36500 | 37590 | 38360 |
| 1.103 | 2.108 | -34700 | -34630 | -34520 | -34930 | -35240 | -35240 | -35790 | -35820 | 35650 | 41040 |
| 1.101 | 3.146 | -35360 | -35170 | -35180 | -35210 | -35550 | -35550 | -35840 | -36770 | 33370 | 43580 |
| 1.102 | 4.191 | -36160 | -36320 | -36370 | -36390 | -36380 | -36380 | -37050 | -37370 | 31460 | 46060 |
| 1.101 | 6.289 | -36880 | -37450 | -37430 | -37660 | -37250 | -37250 | -37800 | -38340 | 27400 | 51780 |
| | GRADIENT | -00131 | -00159 | -00158 | -00151 | -00133 | -00133 | -00105 | -00111 | -02129 | 02499 |

RUN NO. 488/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 1.202 | -6.099 | -34120 | -34160 | -34210 | -34190 | -33670 | -33670 | -33880 | -33930 | 55210 | 26490 |
| 1.200 | -1.952 | -32710 | -32680 | -32730 | -32450 | -32560 | -32560 | -32530 | -32980 | 46000 | 31640 |
| 1.199 | -.900 | -32990 | -33120 | -32830 | -32900 | -32540 | -32540 | -33410 | -33670 | 43810 | 34010 |
| 1.199 | .171 | -33260 | -33390 | -33140 | -32890 | -33070 | -33070 | -33390 | -34030 | 41700 | 36460 |
| 1.201 | .625 | -32800 | -32930 | -32880 | -32780 | -33240 | -33240 | -33440 | -33800 | 40700 | 37720 |
| 1.200 | 1.140 | -32460 | -32440 | -32700 | -32560 | -32730 | -32730 | -33230 | -33350 | 39710 | 39040 |
| 1.199 | 2.189 | -32480 | -32560 | -32810 | -32940 | -33030 | -33030 | -33220 | -33730 | 37750 | 41400 |
| 1.198 | 3.237 | -33390 | -33320 | -33540 | -33450 | -33380 | -33380 | -33950 | -34040 | 35540 | 44250 |
| 1.199 | 4.282 | -33700 | -33790 | -33940 | -33940 | -33830 | -33830 | -33960 | -34560 | 33670 | 46520 |
| 1.197 | 6.350 | -35020 | -35170 | -35210 | -34770 | -34180 | -34180 | -35230 | -35170 | 30670 | 52530 |
| | GRADIENT | -00107 | -00103 | -00156 | -00197 | -00184 | -00184 | -00178 | -00178 | -01981 | 02419 |

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AMES 118-1-11 OAI45A 01

(E2F088) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

ALPHA = .000
 AILRON = .000
 SPDBRK = 87.200
 RUDDER = 5.000
 ELEVON = .000
 BDFLAP = .000
 RUDDER = .000

PARAMETRIC DATA

| RUN NO. 504/ 0 | | RN/L = 4.94 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|--------|-------------|--------|---------------------------------|--------|
| MACH | CP225 | CP228 | CP231 | CP234 | CP237 |
| 1.402 | -31150 | -31000 | -31020 | -30990 | -31200 |
| 1.406 | -31310 | -31410 | -31290 | -31350 | -31520 |
| 1.404 | -31620 | -31680 | -31810 | -31760 | -31870 |
| 1.404 | -31620 | -31780 | -31750 | -31710 | -31900 |
| 1.403 | -31790 | -31800 | -31720 | -31800 | -31800 |
| 1.403 | -31760 | -31850 | -31740 | -31710 | -31670 |
| 1.403 | -31310 | -31410 | -31510 | -31340 | -31330 |
| 1.403 | -31120 | -31360 | -31170 | -31380 | -31140 |
| 1.402 | -31020 | -31120 | -31380 | -31210 | -30830 |
| 1.402 | -30030 | -30150 | -30110 | -30130 | -29700 |
| GRADIENT | .00080 | .00068 | .00045 | .00057 | .00144 |
| | | | | | .00111 |
| | | | | | .00102 |
| | | | | | .01433 |
| | | | | | .01209 |

CP246 -31500
 CP243 -31290
 CP240 -31200
 CP237 -31520
 CP234 -31350
 CP231 -31290
 CP228 -31410
 CP225 -31620
 CP220 -31680
 CP217 -31780
 CP214 -31800
 CP211 -31790
 CP208 -31760
 CP205 -31310
 CP202 -31120
 CP199 -31020
 CP196 -30030
 CP193 -31500
 CP190 -31780
 CP187 -31290
 CP184 -31200
 CP181 -31520
 CP178 -31350
 CP175 -31290
 CP172 -31200
 CP169 -31520
 CP166 -31350
 CP163 -31290
 CP160 -31200
 CP157 -31520
 CP154 -31350
 CP151 -31290
 CP148 -31200
 CP145 -31520
 CP142 -31350
 CP139 -31290
 CP136 -31200
 CP133 -31520
 CP130 -31350
 CP127 -31290
 CP124 -31200
 CP121 -31520
 CP118 -31350
 CP115 -31290
 CP112 -31200
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 CP097 -31520
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 CP091 -31290
 CP088 -31200
 CP085 -31520
 CP082 -31350
 CP079 -31290
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 CP073 -31520
 CP070 -31350
 CP067 -31290
 CP064 -31200
 CP061 -31520
 CP058 -31350
 CP055 -31290
 CP052 -31200
 CP049 -31520
 CP046 -31350
 CP043 -31290
 CP040 -31200
 CP037 -31520
 CP034 -31350
 CP031 -31290
 CP028 -31200
 CP025 -31520
 CP022 -31350
 CP019 -31290
 CP016 -31200
 CP013 -31520
 CP010 -31350
 CP007 -31290
 CP004 -31200
 CP001 -31520

AMES 118-1-11 OAI45A 01

(E2F089) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

ALPHA = .000
 AILRON = .000
 SPDBRK = 87.200
 RUDDER = 5.000
 ELEVON = .000
 BDFLAP = .000
 RUDDER = .000

PARAMETRIC DATA

| RUN NO. 455/ 0 | | RN/L = 4.96 | | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------------|--------|-------------|--------|---------------------------------|--------|
| MACH | BETA | CP240 | CP243 | CP246 | CP249 |
| .598 | -6.037 | -30020 | -30020 | -30020 | -30020 |
| .598 | -1.985 | -29270 | -29270 | -29270 | -29270 |
| .597 | -.968 | -30170 | -30170 | -30170 | -30170 |
| .598 | .060 | -30300 | -30300 | -30300 | -30300 |
| .598 | .556 | -30330 | -30330 | -30330 | -30330 |
| .598 | 1.057 | -30340 | -30340 | -30340 | -30340 |
| .597 | 2.088 | -30260 | -30260 | -30260 | -30260 |
| .598 | 3.113 | -30140 | -30140 | -30140 | -30140 |
| .598 | 4.154 | -30550 | -30550 | -30550 | -30550 |
| .598 | 6.220 | -29820 | -29820 | -29820 | -29820 |
| .598 | 8.285 | -30640 | -30640 | -30640 | -30640 |
| GRADIENT | | .00127 | .00127 | .00127 | .00127 |
| | | | | | .02724 |
| | | | | | .02925 |
| | | | | | .02670 |
| | | | | | .09400 |
| | | | | | .11940 |
| | | | | | .15100 |
| | | | | | .16560 |
| | | | | | .18130 |
| | | | | | .21110 |
| | | | | | .24330 |
| | | | | | .27020 |
| | | | | | .33630 |
| | | | | | .39650 |
| | | | | | .04110 |
| | | | | | .01740 |
| | | | | | .00110 |
| | | | | | .00111 |
| | | | | | .00102 |
| | | | | | .01433 |
| | | | | | .01209 |

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OAI45 TABULATED FORCE DATA

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(E2F089) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 87.200 RUDDER = .000
 RN/L = 5.000

RUN NO. 469/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .902 | -6.127 | -.35470 | .45520 | .04650 |
| .903 | -2.025 | -.36370 | .34170 | .17450 |
| .901 | -.995 | -.36230 | .31440 | .20830 |
| .901 | .049 | -.36530 | .28480 | .23750 |
| .903 | .550 | -.36530 | .27240 | .25520 |
| .901 | 1.059 | -.36830 | .25570 | .26900 |
| .901 | 2.107 | -.38460 | .22100 | .29430 |
| .902 | 3.150 | -.37860 | .19800 | .32810 |
| .899 | 4.208 | -.38870 | .16560 | .35590 |
| .900 | 6.298 | -.38910 | .11470 | .41950 |
| .902 | 8.379 | -.39970 | .05320 | .48210 |
| | GRADIENT | -.00445 | -.02844 | .02888 |

RUN NO. 480/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .950 | -6.126 | -.37160 | .47900 | .07450 |
| .953 | -2.032 | -.37600 | .36730 | .20420 |
| .950 | -.997 | -.38290 | .33880 | .23260 |
| .952 | .049 | -.38340 | .31180 | .26640 |
| .952 | .554 | -.37860 | .29770 | .28220 |
| .951 | 1.064 | -.38940 | .28310 | .29380 |
| .951 | 2.134 | -.38670 | .25390 | .32480 |
| .950 | 3.159 | -.38750 | .23030 | .35390 |
| .950 | 4.219 | -.38820 | .20250 | .38390 |
| .948 | 6.308 | -.40030 | .14110 | .43960 |
| .950 | 8.385 | -.40800 | .09350 | .50310 |
| | GRADIENT | -.00176 | -.02639 | .02877 |

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OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

(E2F089) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA =
AILRON =
SPDBRK =
RN/L =
ELEVON =
BDFLAP =
RUDDER =

RUN NO. 507/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|--------|
| 1.199 | -6.133 | .59540 | .25920 | .31630 |
| 1.203 | -2.042 | .33010 | .48870 | .34420 |
| 1.202 | -1.005 | .33370 | .46420 | .37110 |
| 1.199 | .050 | .33760 | .43700 | .38450 |
| 1.200 | .554 | .34130 | .42510 | .40040 |
| 1.200 | 1.069 | .33740 | .41380 | .42620 |
| 1.198 | 2.125 | .34630 | .38810 | .45940 |
| 1.199 | 3.174 | .34110 | .36760 | .48670 |
| 1.196 | 4.234 | .34370 | .34760 | .54700 |
| 1.197 | 6.328 | .35000 | .31550 | .60930 |
| 1.198 | 8.407 | .34950 | .29360 | .60930 |
| | GRADIENT | -.00214 | -.02270 | .02725 |

RUN NO. 496/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|--------|
| 1.404 | -6.177 | .31280 | .62130 | .35600 |
| 1.409 | -2.049 | .32740 | .52940 | .43280 |
| 1.401 | -1.013 | .33140 | .51140 | .44560 |
| 1.400 | .044 | .33330 | .49540 | .45940 |
| 1.399 | .554 | .33370 | .48820 | .46300 |
| 1.399 | 1.070 | .33240 | .48460 | .46650 |
| 1.400 | 2.131 | .33520 | .47150 | .47360 |
| 1.399 | 3.184 | .33070 | .45540 | .49180 |
| 1.400 | 4.248 | .33100 | .43490 | .51100 |
| 1.400 | 6.355 | .32040 | .38480 | .56170 |
| 1.400 | 8.446 | .29700 | .30360 | .61800 |
| | GRADIENT | -.00035 | -.01424 | .01161 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

PARAMETRIC DATA
ALPHA = 15.000
AILRON = .000
SPDRK = 87.200
RN/L = 5.000
ELEVON = .000
BDFLAP = .000
RUDDER = .000

RUN NO. 456/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .598 | -6.082 | -.32830 | .36360 | -.08680 |
| .597 | -1.993 | -.34330 | .22790 | .05240 |
| .598 | -.957 | -.34470 | .19890 | .08930 |
| .597 | .089 | -.34340 | .16730 | .12610 |
| .598 | .595 | -.34630 | .14780 | .14170 |
| .598 | 1.106 | -.34740 | .12810 | .15690 |
| .597 | 2.130 | -.35150 | .09590 | .18800 |
| .598 | 3.165 | -.33710 | .06630 | .23000 |
| .597 | 4.209 | -.32980 | .02950 | .26780 |
| .599 | 6.271 | -.33050 | -.02840 | .33140 |
| .599 | 8.339 | -.33350 | -.08880 | .40250 |
| | GRADIENT | .00170 | -.03226 | .03425 |

RUN NO. 470/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .902 | -6.180 | -.40200 | .47630 | .02330 |
| .901 | -2.033 | -.42890 | .34390 | .16060 |
| .901 | -.987 | -.43580 | .31540 | .19470 |
| .901 | .067 | -.43340 | .28040 | .23210 |
| .902 | .584 | -.43650 | .26720 | .24860 |
| .899 | 1.099 | -.44440 | .24850 | .26230 |
| .902 | 2.135 | -.44970 | .21600 | .29730 |
| .902 | 3.182 | -.44770 | .18980 | .33310 |
| .901 | 4.238 | -.45390 | .16010 | .36680 |
| .903 | 6.324 | -.46300 | .09730 | .43220 |
| .900 | 8.413 | -.46330 | .03050 | .50070 |
| | GRADIENT | -.00399 | -.02969 | .03285 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(E2F0C0) (06 MAR 80)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 15.000
AIIIRON = .000
SPDBRK = 87.200
RUDDER = 5.000
ELEVON = .000
BDFLAP = .000

RUN NO. 508/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|--------|
| 1.198 | -6.183 | -.32390 | .61350 | .25600 |
| 1.202 | -2.053 | -.33150 | .50470 | .31290 |
| 1.200 | -1.002 | -.33480 | .47140 | .33850 |
| 1.199 | .061 | -.33750 | .44160 | .36870 |
| 1.199 | .575 | -.33950 | .42740 | .38240 |
| 1.198 | 1.103 | -.33920 | .41310 | .39730 |
| 1.197 | 2.145 | -.33780 | .38730 | .42960 |
| 1.198 | 3.198 | -.33880 | .36970 | .46260 |
| 1.199 | 4.254 | -.33830 | .34630 | .49830 |
| 1.199 | 6.344 | -.33140 | .30910 | .56370 |
| 1.197 | 8.434 | -.34450 | .28130 | .62750 |
| | GRADIENT | -.00093 | -.02486 | .02948 |

RUN NO. 497/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|--------|
| 1.391 | -6.238 | -.30870 | .64510 | .36030 |
| 1.397 | -2.069 | -.32320 | .54950 | .43930 |
| 1.399 | -1.006 | -.32420 | .52620 | .44840 |
| 1.398 | .059 | -.32340 | .50510 | .45820 |
| 1.396 | .586 | -.32470 | .49540 | .46190 |
| 1.396 | 1.105 | -.32400 | .48460 | .46760 |
| 1.395 | 2.156 | -.32190 | .46420 | .48110 |
| 1.394 | 3.210 | -.32200 | .43320 | .50020 |
| 1.393 | 4.276 | -.31780 | .42330 | .53270 |
| 1.391 | 6.378 | -.30550 | .39820 | .59380 |
| 1.390 | 8.474 | -.29650 | .29250 | .65780 |
| | GRADIENT | .00078 | -.02050 | .01385 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(E2F0C1) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = .000
ELEVON = .000
BOFLAP = .000
RN/L = 5.000
BETA = .000
AILRON = .000
SPDBRK = 87.200

RUN NO. 453/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP240 | CP12 | CP13 |
|------|----------|---------|--------|---------|
| .598 | -10.072 | -.25710 | .08280 | .06840 |
| .598 | -5.111 | -.26010 | .08180 | .06470 |
| .599 | -2.524 | -.25760 | .07840 | .06650 |
| .598 | -.096 | -.25930 | .07870 | .06430 |
| .598 | 2.393 | -.25660 | .08020 | .06590 |
| .598 | 4.977 | -.25870 | .07990 | .06370 |
| .598 | 9.828 | -.25440 | .08190 | .06550 |
| | GRADIENT | -.00003 | .00024 | -.00027 |

RUN NO. 471/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .902 | -10.072 | -.31870 | .17670 | .15630 |
| .902 | -5.126 | -.31720 | .17930 | .15510 |
| .902 | -2.507 | -.31080 | .18040 | .15780 |
| .902 | .103 | -.31110 | .18000 | .15720 |
| .902 | 2.401 | -.30660 | .18090 | .15920 |
| .901 | 4.977 | -.30720 | .17910 | .15670 |
| .902 | 9.828 | -.30880 | .17880 | .15600 |
| | GRADIENT | .00061 | -.00012 | -.00005 |

RUN NO. 482/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .951 | -10.054 | -.38370 | .21850 | .19520 |
| .952 | -5.111 | -.37710 | .21890 | .19610 |
| .952 | -2.532 | -.37610 | .21820 | .19550 |
| .952 | -.110 | -.37240 | .21890 | .19550 |
| .951 | 2.410 | -.37560 | .21640 | .19320 |
| .952 | 4.959 | -.36900 | .21890 | .19570 |
| .952 | 9.828 | -.36820 | .21750 | .19380 |
| | GRADIENT | .00073 | -.00002 | -.00007 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

(E2F0C1) (08 MAR 80)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = .000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 AILRON = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO BDFLAP = .000 SPDBRK = 87.200
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 509/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP240 | CP12 | CP13 |
|-------|----------|--------|--------|--------|
| 1.204 | -10.063 | -28950 | -38700 | -35640 |
| 1.200 | -5.111 | -29060 | -38460 | -35280 |
| 1.199 | -2.524 | -29080 | -38120 | -35090 |
| 1.200 | -.089 | -28710 | -38410 | -35290 |
| 1.199 | 2.410 | -29080 | -38280 | -35100 |
| 1.200 | 4.949 | -28780 | -38480 | -35370 |
| 1.199 | 9.804 | -29250 | -38280 | -35080 |
| | GRADIENT | .00021 | .00038 | .00026 |

AMES 118-1-11 0A145A 01

(E2F0C2) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = .000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 AILRON = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO BDFLAP = .000 SPDBRK = 87.200
 SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 452/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP226 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .597 | -10.045 | -28300 | -28320 | -28450 | -28130 | -28300 | -28300 | -29050 | -31050 | .15150 | .12880 |
| .596 | -5.141 | -28120 | -28290 | -28440 | -28050 | -28120 | -28120 | -28660 | -30590 | .15530 | .13070 |
| .597 | -2.499 | -28080 | -28280 | -27590 | -28180 | -27870 | -27870 | -20610 | -30800 | .15420 | .13300 |
| .597 | -.089 | -28260 | -28160 | -27990 | -28430 | -28130 | -28130 | -28840 | -30560 | .15290 | .12970 |
| .598 | 2.410 | -28330 | -28280 | -27940 | -27890 | -28020 | -28020 | -28630 | -30570 | .15360 | .13160 |
| .598 | 4.949 | -27640 | -28080 | -27680 | -27760 | -27900 | -27900 | -28870 | -30210 | .15520 | .13070 |
| .598 | 9.804 | -27610 | -28000 | -27760 | -27340 | -27610 | -27610 | -28460 | -29750 | .15520 | .13230 |
| | GRADIENT | .00051 | .00019 | .00008 | .00073 | .00001 | .00001 | .00023 | .00071 | .00015 | .00020 |

DATE 10 MAR 80

(E2F0C2) (08 JUL 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XHRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YHRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZHRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = 87.200
 RN/L = 5.000

RUN NO. 464/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| .901 | -10.063 | -30370 | -30160 | -30270 | -30210 | -35380 | -35380 | -36030 | -36700 | -24420 | -21200 |
| .902 | -5.119 | -29950 | -30650 | -29330 | -29780 | -34900 | -34900 | -35750 | -36900 | -24620 | -21250 |
| .902 | -2.532 | -30250 | -29960 | -29750 | -29320 | -34560 | -34560 | -35480 | -36670 | -24770 | -21270 |
| .902 | .110 | -30310 | -30290 | -30000 | -30250 | -34730 | -34730 | -35280 | -36850 | -24710 | -21110 |
| .902 | 2.419 | -30270 | -29730 | -30160 | -29790 | -34780 | -34780 | -35520 | -36800 | -24550 | -21110 |
| .902 | 4.986 | -29490 | -29830 | -29810 | -30060 | -34750 | -34750 | -35310 | -35580 | -24540 | -21040 |
| .903 | 9.812 | -30010 | -29460 | -29880 | -29100 | -34190 | -34190 | -34980 | -35640 | -24780 | -21280 |
| | GRADIENT | .00093 | .00038 | .00013 | .00069 | .00024 | .00024 | .00011 | .00016 | -.00034 | -.00027 |

RUN NO. 475/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| .951 | -10.045 | -31870 | -31820 | -31930 | -32250 | -37500 | -37500 | -37750 | -38940 | -27480 | -24470 |
| .952 | -5.111 | -31490 | -31780 | -31810 | -31910 | -36820 | -36820 | -38130 | -38980 | -27680 | -24700 |
| .952 | -2.516 | -31310 | -31510 | -31380 | -31210 | -36980 | -36980 | -37950 | -38920 | -27930 | -24630 |
| .950 | .110 | -31680 | -31830 | -31630 | -31910 | -37580 | -37580 | -38130 | -38900 | -27500 | -24220 |
| .952 | 2.401 | -31580 | -31330 | -31430 | -31430 | -36870 | -36870 | -38040 | -38610 | -27740 | -24530 |
| .952 | 4.986 | -30870 | -31790 | -31100 | -31490 | -37060 | -37060 | -37460 | -38380 | -27670 | -24390 |
| .951 | 9.820 | -31470 | -31650 | -31760 | -31770 | -37540 | -37540 | -38100 | -38360 | -27550 | -24120 |
| .952 | GRADIENT | .00058 | .00014 | .00042 | .00013 | .00019 | .00019 | .00063 | .00077 | -.00021 | -.00016 |

RUN NO. 490/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|
| 1.201 | -10.072 | -32260 | -32310 | -32320 | -32380 | -33120 | -33120 | -32970 | -33390 | -41810 | -36360 |
| 1.200 | -5.104 | -32510 | -32710 | -33230 | -32440 | -33020 | -33020 | -33060 | -33650 | -41740 | -36350 |
| 1.200 | -2.467 | -33050 | -33120 | -32880 | -32830 | -33180 | -33180 | -33560 | -33690 | -41830 | -36360 |
| 1.200 | .069 | -32730 | -32670 | -32680 | -32670 | -32600 | -32600 | -32720 | -33740 | -41840 | -36430 |
| 1.199 | 2.410 | -33200 | -32810 | -32580 | -32340 | -33340 | -33340 | -33330 | -33430 | -41750 | -36180 |
| 1.200 | 4.931 | -32730 | -32690 | -32560 | -32720 | -32980 | -32980 | -33250 | -33320 | -41860 | -36450 |
| 1.201 | 9.804 | -32070 | -32200 | -32050 | -32340 | -32440 | -32440 | -32790 | -32890 | -41720 | -36390 |
| | GRADIENT | .00020 | .00045 | .00043 | .00006 | -.00006 | -.00006 | .00012 | .00058 | .00000 | .00001 |

(E2F0C2) (08 JUL 77)

AMES 118-1-11 0A145A 01

PARAMETRIC DATA

REFERENCE DATA

ALPHA = 5.000 BETA = .000
ELEVON = .000 AILRON = .000
BDFLAP = .000 SPDBRK = 87.200
RN/L = 5.000

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

RUN NO. 505/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 1.402 | -10.045 | -31660 | -31680 | -31710 | -31680 | -31820 | -31820 | -32010 | -32240 | .48500 | .44690 |
| 1.403 | -5.134 | -31970 | -31970 | -32060 | -31990 | -32040 | -32040 | -32170 | -32390 | .48510 | .44830 |
| 1.403 | -2.516 | -31750 | -31970 | -31840 | -31950 | -31970 | -31970 | -32070 | -32370 | .48300 | .44790 |
| 1.404 | .089 | -31800 | -31800 | -31650 | -31560 | -31950 | -31950 | -32020 | -32280 | .48330 | .44610 |
| 1.403 | 2.367 | -31640 | -31660 | -31760 | -31730 | -31880 | -31880 | -32000 | -32270 | .48450 | .44810 |
| 1.403 | 4.977 | -31680 | -31860 | -31730 | -31730 | -31860 | -31860 | -31940 | -32090 | .48200 | .44630 |
| 1.404 | 9.828 | -31560 | -31610 | -31630 | -31470 | -31750 | -31750 | -31890 | -32150 | .48270 | .44670 |
| | GRADIENT | .00015 | .00018 | .00009 | .00019 | .00016 | .00016 | .00016 | .00034 | -.00008 | -.00011 |

(E2F0C3) (06 MAR 80)

AMES 118-1-11 0A145A 01

PARAMETRIC DATA

REFERENCE DATA

ALPHA = 10.000 BETA = .000
ELEVON = .000 AILRON = .000
BDFLAP = .000 SPDBRK = 87.200
RN/L = 5.000

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

RUN NO. 454/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP240 | CP12 | CP13 |
|------|----------|---------|--------|--------|
| .597 | -10.089 | -.29740 | .18440 | .15170 |
| .597 | -5.126 | -.30510 | .18050 | .14810 |
| .598 | -2.516 | -.29860 | .18660 | .15200 |
| .597 | .116 | -.30010 | .18840 | .15190 |
| .597 | 2.401 | -.29750 | .18760 | .15400 |
| .598 | 4.977 | -.23500 | .18870 | .15480 |
| .598 | 9.844 | -.29890 | .18570 | .14870 |
| | GRADIENT | .00054 | .00022 | .00042 |

OAI45 TABULATED FORCE DATA

(E2F0C3) (05 MAR 80)

DATE 10 MAR 80

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 10.000 BETA = .000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 AILRON = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO BOFLAP = .000 SPDBRK = 87.200
SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 472/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | | RUDDER | | CP240 | CP12 | CP13 |
|------|----------|--------|--|---------|---------|---------|
| .900 | -10.063 | | | -.37410 | .28020 | .23410 |
| .901 | -5.119 | | | -.36890 | .28510 | .23700 |
| .902 | -2.507 | | | -.37250 | .28210 | .23610 |
| .902 | | | | -.36500 | .28540 | .23890 |
| .903 | 2.384 | | | -.36120 | .28620 | .23960 |
| .903 | 4.959 | | | -.37130 | .28150 | .23510 |
| .902 | 9.796 | | | -.36340 | .28500 | .23830 |
| | GRADIENT | | | .00027 | -.00005 | -.00010 |

RUN NO. 481/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | | RUDDER | | CP240 | CP12 | CP13 |
|------|----------|--------|--|---------|---------|---------|
| .952 | -10.063 | | | -.38730 | .31030 | .26570 |
| .951 | -5.119 | | | -.38720 | .30900 | .26330 |
| .951 | -2.524 | | | -.38670 | .31030 | .26430 |
| .953 | | | | -.37620 | .31380 | .26900 |
| .951 | 2.410 | | | -.38530 | .30980 | .26470 |
| .951 | 4.977 | | | -.38060 | .31070 | .26510 |
| .952 | 9.804 | | | -.37160 | .31320 | .26950 |
| | GRADIENT | | | .00036 | -.00012 | -.00008 |

RUN NO. 510/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | | RUDDER | | CP240 | CP12 | CP13 |
|-------|----------|--------|--|---------|--------|--------|
| 1.200 | -10.063 | | | -.34040 | .43790 | .36880 |
| 1.200 | -5.126 | | | -.33910 | .43690 | .36960 |
| 1.199 | -2.524 | | | -.34140 | .43760 | .36880 |
| 1.200 | | | | -.34170 | .43790 | .36970 |
| 1.200 | 2.376 | | | -.34340 | .43860 | .36970 |
| 1.200 | 4.959 | | | -.34130 | .43850 | .37000 |
| 1.200 | 9.804 | | | -.33820 | .43860 | .37100 |
| | GRADIENT | | | -.00005 | .00014 | .00014 |

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(E2F0C3) (06 MAR 80)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 1076.6800 IN. XO ALPHA = 10.000 BETA = .000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 AILRON = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO BDFLAP = .000 SPDBRK = 87.200
SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 499/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | |
|-------|----------|---------|--------|--------|
| MACH | RUDDER | CP240 | CP12 | CP13 |
| 1.403 | -9.919 | -32900 | .49740 | .46080 |
| 1.404 | -5.126 | -33000 | .49530 | .46090 |
| 1.405 | -2.516 | -33000 | .49620 | .46030 |
| 1.406 | -.062 | -32970 | .49620 | .46160 |
| 1.404 | 2.401 | -32990 | .49610 | .46130 |
| 1.404 | 4.959 | -33040 | .49630 | .46070 |
| 1.403 | 9.820 | -33000 | .49700 | .46060 |
| | GRADIENT | -.00006 | .00001 | .00003 |

(E2F0C4) (06 MAR 80)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 1076.6800 IN. XO ALPHA = 15.000 BETA = .000
LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = .000 AILRON = .000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO BDFLAP = .000 SPDBRK = 87.200
SCALE = .0500 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 511/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | |
|-------|----------|---------|---------|---------|
| MACH | RUDDER | CP240 | CP12 | CP13 |
| 1.197 | -10.054 | -34520 | .44130 | .36370 |
| 1.199 | -5.126 | -33980 | .44300 | .36570 |
| 1.200 | -2.532 | -33930 | .44410 | .36720 |
| 1.197 | -.110 | -33980 | .44100 | .36520 |
| 1.199 | 2.376 | -33860 | .44240 | .36690 |
| 1.199 | 4.959 | -34150 | .44340 | .36570 |
| 1.200 | 9.812 | -33840 | .44440 | .36850 |
| | GRADIENT | -.00022 | -.00002 | -.00011 |

REFERENCE DATA
 SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA
 ALPHA = .000 BETA = .000
 ELEVON = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = 87.200
 RN/L = 5.000

RUN NO. 498/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP240 | CP12 | CP13 |
|-------|----------|---------|---------|---------|
| 1.397 | -10.107 | -.32600 | .50420 | .45640 |
| 1.397 | -5.104 | -.32370 | .50530 | .45800 |
| 1.395 | -2.483 | -.32380 | .50610 | .45740 |
| 1.397 | -.096 | -.32280 | .50490 | .45830 |
| 1.395 | 2.436 | -.32360 | .50590 | .45690 |
| 1.394 | 4.977 | -.32450 | .50490 | .45670 |
| 1.395 | 9.780 | -.32600 | .50480 | .45660 |
| | GRADIENT | -.00012 | -.00010 | -.00014 |

REFERENCE DATA
 SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA
 BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 87.200 RUDDER = -5.000
 RN/L = 5.000

RUN NO. 451/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .597 | -5.027 | -.29420 | -.29340 | -.29590 | -.29610 | -.27730 | -.27730 | -.27510 | -.28340 | -.04120 | -.04030 |
| .598 | -.035 | -.28110 | -.28300 | -.27890 | -.27670 | -.25760 | -.25760 | -.25790 | -.25790 | .07920 | .06460 |
| .597 | 2.523 | -.27840 | -.27880 | -.27860 | -.27250 | -.26700 | -.26700 | -.27000 | -.27650 | .12350 | .10510 |
| .596 | 5.042 | -.27650 | -.28480 | -.28340 | -.27940 | -.27710 | -.27710 | -.27980 | -.30590 | .15250 | .13280 |
| .595 | 7.088 | -.28320 | -.28510 | -.28510 | -.28370 | -.29380 | -.29380 | -.30880 | -.33030 | .16930 | .14010 |
| .596 | 8.125 | -.27900 | -.27930 | -.27390 | -.28070 | -.29460 | -.29460 | -.30560 | -.33580 | .17770 | .14890 |
| .595 | 10.188 | -.28320 | -.28270 | -.27540 | -.27980 | -.30400 | -.30400 | -.31550 | -.35910 | .18530 | .14840 |
| .597 | 12.232 | -.28200 | -.27520 | -.27860 | -.27930 | -.31140 | -.31140 | -.33380 | -.37640 | .18700 | .14870 |
| .596 | 15.276 | -.29830 | -.29190 | -.29510 | -.30120 | -.34690 | -.34690 | -.34810 | -.37110 | .16860 | .12220 |
| | GRADIENT | .00106 | .00164 | .00012 | .00164 | -.00368 | -.00368 | -.00473 | -.00727 | .01732 | .01584 |

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(EEF0C5) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 87.200 RUDDER = -5.000
 RN/L = 5.000

RUN NO. 465/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .902 | -5.257 | -32920 | -32870 | -32430 | -32530 | -32730 | -32730 | -33120 | -33080 | .08580 | .08440 |
| .903 | .060 | -30820 | -30750 | -30200 | -30500 | -30760 | -30760 | -30390 | -31220 | .18750 | .16380 |
| .904 | 2.478 | -29150 | -29720 | -29350 | -29770 | -32030 | -32030 | -32850 | -33450 | .21700 | .19170 |
| .902 | 4.957 | -29830 | -30250 | -30230 | -30390 | -35550 | -35550 | -36430 | -36430 | .24370 | .20860 |
| .902 | 6.976 | -30940 | -30060 | -30160 | -30870 | -35330 | -35330 | -35830 | -36460 | .26810 | .22480 |
| .900 | 7.972 | -30820 | -31120 | -31570 | -31570 | -36540 | -36540 | -37230 | -37430 | .27180 | .23110 |
| .901 | 9.977 | -30780 | -30640 | -31100 | -30800 | -36850 | -36850 | -37800 | -38150 | .28420 | .23750 |
| .902 | 11.928 | -33090 | -32290 | -32150 | -31920 | -39370 | -39370 | -39080 | -39790 | .28760 | .23380 |
| .901 | 14.820 | -35410 | -34960 | -35230 | -35750 | -43760 | -43760 | -44450 | -45130 | .28220 | .22590 |
| | GRADIENT | .00260 | .00101 | .00008 | .00021 | .00980 | .00980 | .01234 | .01065 | .01147 | .00914 |

RUN NO. 476/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .953 | -5.097 | -36060 | -35890 | -35930 | -36250 | -41240 | -41240 | -42010 | -42560 | .13470 | .13280 |
| .952 | .466 | -34190 | -34170 | -33670 | -33800 | -37760 | -37760 | -38010 | -39220 | .21390 | .21940 |
| .953 | 2.284 | -33280 | -32940 | -32990 | -33130 | -38450 | -38450 | -39050 | -39140 | .24840 | .21940 |
| .951 | 4.929 | -31770 | -31420 | -31860 | -31640 | -37120 | -37120 | -37320 | -38490 | .27480 | .23700 |
| .951 | 7.054 | -31530 | -31530 | -31290 | -31470 | -36880 | -36880 | -37850 | -38220 | .29690 | .25480 |
| .950 | 8.061 | -30830 | -31330 | -31130 | -31490 | -37780 | -37780 | -37780 | -38610 | .30070 | .25840 |
| .952 | 10.143 | -31760 | -31520 | -31720 | -31390 | -38620 | -38620 | -39390 | -39260 | .31160 | .26430 |
| .952 | 12.048 | -32920 | -31920 | -31710 | -31970 | -40290 | -40290 | -40260 | -41390 | .31600 | .26490 |
| .952 | 15.034 | -34980 | -34980 | -34900 | -35170 | -43250 | -43250 | -43890 | -44990 | .31500 | .25850 |
| .951 | GRADIENT | .00448 | .00509 | .00335 | .00399 | .00116 | .00116 | .00125 | .00135 | .01130 | .00846 |

RUN NO. 491/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.200 | -5.196 | -28860 | -28920 | -28910 | -28980 | -28510 | -28510 | -28870 | -29270 | .33340 | .34420 |
| 1.200 | .168 | -30190 | -30270 | -29970 | -30200 | -29150 | -29150 | -29600 | -30240 | .38540 | .35590 |
| 1.200 | 2.410 | -31520 | -31250 | -31420 | -31260 | -31480 | -31480 | -31790 | -32530 | .40130 | .35500 |
| 1.196 | 4.992 | -33180 | -33110 | -32890 | -33100 | -33220 | -33220 | -33550 | -34010 | .41530 | .36020 |
| 1.198 | 7.057 | -33510 | -33580 | -33500 | -33550 | -33480 | -33480 | -33580 | -33560 | .43160 | .35470 |
| 1.199 | 8.094 | -34070 | -34130 | -33850 | -33750 | -34050 | -34050 | -33580 | -34370 | .43090 | .36600 |
| 1.202 | 10.129 | -34420 | -34500 | -34610 | -34630 | -35000 | -35000 | -35500 | -35430 | .43900 | .36980 |
| 1.202 | 12.152 | -34710 | -34820 | -34870 | -34530 | -34860 | -34860 | -35220 | -35710 | .44520 | .37040 |
| 1.199 | 15.184 | -34500 | -34430 | -34030 | -34360 | -34740 | -34740 | -35220 | -35650 | .44290 | .36460 |
| | GRADIENT | .00579 | .00550 | .00566 | .00562 | .00789 | .00789 | .00765 | .00731 | .00579 | .00083 |

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REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

BETA =
 AILRON =
 SPOBRK =
 RN/L =

ELEVON = .000
 BOFLAP = .000
 RUDDER = -5.000

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO.

501/ 0

RN/L =

4.96

MACH
 1.402
 1.401
 1.400
 1.400
 1.403
 1.402
 1.400
 1.397
 1.394

ALPHA
 -5.088
 -.032
 2.494
 5.077
 7.183
 8.181
 10.236
 12.227
 15.280
 GRADIENT

CP225
 -.26700
 -.29150
 -.30680
 -.32260
 -.33050
 -.33310
 -.33490
 -.34100
 -.34130
 -.00606

CP228
 -.26660
 -.29230
 -.30840
 -.32180
 -.33260
 -.33230
 -.33680
 -.34250
 -.34260
 -.00637

CP231
 -.26640
 -.29280
 -.30810
 -.32170
 -.33250
 -.33230
 -.33630
 -.34140
 -.34020
 -.00606

CP234
 -.26640
 -.29250
 -.30790
 -.32070
 -.33250
 -.33360
 -.33740
 -.34230
 -.34180
 -.00610

CP237
 -.27380
 -.29290
 -.30900
 -.32190
 -.33000
 -.33180
 -.33120
 -.33280
 -.32330
 -.00637

CP240
 -.27380
 -.29290
 -.30900
 -.32190
 -.33000
 -.33180
 -.33120
 -.33280
 -.32330
 -.00637

CP243
 -.27710
 -.29670
 -.31050
 -.32400
 -.33080
 -.33300
 -.33330
 -.33230
 -.32460
 -.00546

CP246
 -.28140
 -.29710
 -.31350
 -.32670
 -.33340
 -.33490
 -.33520
 -.33570
 -.32720
 -.00649

CP12
 .40030
 .44490
 .45880
 .48060
 .49350
 .48940
 .45920
 .50040
 .50790
 .00550

CP13
 .43190
 .44000
 .44600
 .44580
 .45320
 .45620
 .45920
 .45100
 .45120
 .00237

AMES 118-1-11 OAI45A 01

(E2F0C6) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

ALPHA =
 AILRON =
 SPOBRK =
 RN/L =

ELEVON = .000
 BOFLAP = .000
 RUDDER = -5.000

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO.

448/ 0

RN/L =

4.99

MACH
 .598
 .597
 .597
 .597
 .597
 .597
 .597
 .597
 .597

BETA
 -6.016
 -1.917
 -.877
 .031
 .510
 1.020
 2.085
 3.128
 4.161
 6.218
 GRADIENT

CP225
 -.27420
 -.27970
 -.28100
 -.28230
 -.28380
 -.28170
 -.27980
 -.27800
 -.29430
 -.28020
 -.00032

CP228
 -.27550
 -.28020
 -.28100
 -.28030
 -.28230
 -.28040
 -.27450
 -.27970
 -.27790
 -.28270
 .00059

CP231
 -.27690
 -.28000
 -.27980
 -.28060
 -.27940
 -.28510
 -.27670
 -.27900
 -.27960
 -.28460
 .00023

CP234
 -.27570
 -.27600
 -.27590
 -.27930
 -.27980
 -.28460
 -.27530
 -.27820
 -.28110
 -.28150
 -.00054

CP237
 -.28000
 -.27950
 -.28340
 -.27980
 -.28300
 -.28490
 -.28010
 -.27980
 -.28110
 -.28420
 .00011

CP240
 -.28000
 -.27950
 -.28340
 -.27980
 -.28300
 -.28490
 -.28010
 -.27980
 -.28110
 -.28420
 .00011

CP243
 -.28490
 -.28700
 -.28760
 -.28510
 -.28590
 -.28930
 -.28690
 -.28660
 -.28670
 -.29270
 .00002

CP246
 -.30380
 -.30180
 -.30190
 -.30430
 -.30580
 -.30760
 -.30120
 -.30990
 -.30800
 -.31240
 -.00108

CP12
 .29730
 .20320
 .17720
 .15350
 .14350
 .12840
 .10760
 .08200
 .05860
 .00420
 -.02366

CP13
 -.01550
 .08310
 .10690
 .13060
 .13990
 .15350
 .18270
 .20810
 .23170
 .28430
 .02479

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

ALPHA = .000
ATLIRON = .000
SPOBRK = .000
RN/L = .000
ELEVON = .000
BDFLAP = .000
RUDDER = -5.000

PARAMETRIC DATA

RUN NO. 466/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| .903 | -6.109 | -.29760 | -.30010 | -.29930 | -.29880 | -.32480 | -.32480 | -.33420 | -.33950 | .39690 | .05690 |
| .902 | -1.952 | -.29960 | -.30230 | -.30160 | -.30110 | -.34950 | -.34950 | -.35850 | -.37440 | .29820 | .15910 |
| .902 | -.904 | -.29920 | -.29700 | -.30320 | -.29920 | -.35350 | -.35350 | -.35850 | -.36630 | .26860 | .18650 |
| .903 | .009 | -.29580 | -.30150 | -.29430 | -.29760 | -.35130 | -.35130 | -.36720 | -.36720 | .24940 | .21080 |
| .901 | .663 | -.30130 | -.30070 | -.30430 | -.30550 | -.34970 | -.34970 | -.35680 | -.36540 | .23190 | .22540 |
| .902 | 1.171 | -.29850 | -.30300 | -.30780 | -.30060 | -.35620 | -.35620 | -.35510 | -.35550 | .21970 | .23720 |
| .902 | 2.216 | -.30440 | -.30080 | -.30650 | -.31480 | -.34500 | -.34500 | -.35260 | -.36200 | .19670 | .26810 |
| 1.144 | 3.259 | 1.0570 | 1.0620 | 1.0720 | 1.0370 | -.07200 | -.07200 | .06950 | .06900 | .50270 | .60640 |
| .904 | 4.304 | -.29490 | -.29490 | -.30820 | -.30970 | -.34160 | -.34160 | -.35020 | -.35670 | .15160 | .32620 |
| .899 | 6.380 | -.32610 | -.32950 | -.32880 | -.33230 | -.36850 | -.36850 | -.38260 | -.36860 | .09120 | .37430 |
| GRADIENT | .02678 | .02904 | .02764 | .02678 | .03081 | .03081 | .03081 | .03134 | .03249 | -.00026 | .04830 |

RUN NO. 477/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| .953 | -6.085 | -.31950 | -.31530 | -.31600 | -.31550 | -.35630 | -.35630 | -.36300 | -.37830 | .42280 | .08760 |
| .953 | -1.951 | -.30800 | -.30850 | -.30780 | -.30780 | -.36400 | -.36400 | -.37330 | -.38400 | .32880 | .19220 |
| .950 | -.906 | -.31470 | -.31840 | -.32110 | -.31760 | -.37310 | -.37310 | -.38240 | -.39100 | .30020 | .21450 |
| .950 | .151 | -.31850 | -.31950 | -.31730 | -.32100 | -.36870 | -.36870 | -.38560 | -.39680 | .27630 | .24430 |
| .951 | .662 | -.32010 | -.31610 | -.32040 | -.32280 | -.37510 | -.37510 | -.38260 | -.38410 | .26470 | .25650 |
| .952 | 1.179 | -.32430 | -.32060 | -.31980 | -.31940 | -.36250 | -.36250 | -.37020 | -.38010 | .25580 | .27240 |
| .951 | 2.226 | -.32230 | -.32780 | -.32800 | -.32450 | -.36790 | -.36790 | -.37430 | -.38540 | .22970 | .29780 |
| .951 | 3.264 | -.32920 | -.33230 | -.32930 | -.32760 | -.37390 | -.37390 | -.37910 | -.38360 | .20340 | .32340 |
| .949 | 4.304 | -.34340 | -.33610 | -.33980 | -.33290 | -.38650 | -.38650 | -.38990 | -.39360 | .17840 | .34690 |
| .950 | 6.372 | -.34940 | -.35260 | -.35260 | -.34440 | -.40260 | -.40260 | -.40560 | -.42000 | .12800 | .40050 |
| GRADIENT | .00477 | .00415 | .00415 | .00423 | .00334 | .00226 | .00226 | .00104 | .00009 | -.02368 | .02521 |

RUN NO. 492/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 1.200 | -6.075 | -.34210 | -.34210 | -.34130 | -.34010 | -.33880 | -.33880 | -.34080 | -.33960 | .54770 | .26260 |
| 1.199 | -1.943 | -.32840 | -.32830 | -.32680 | -.32900 | -.32530 | -.32530 | -.32830 | -.33060 | .46040 | .31670 |
| 1.199 | -.902 | -.32740 | -.32710 | -.32810 | -.32670 | -.32630 | -.32630 | -.33140 | -.33010 | .43810 | .33980 |
| 1.198 | .154 | -.32850 | -.32830 | -.32790 | -.32600 | -.32600 | -.32600 | -.33440 | -.33570 | .41630 | .36210 |
| 1.198 | .631 | -.32750 | -.32910 | -.32830 | -.32710 | -.33090 | -.33090 | -.33600 | -.33880 | .40450 | .37500 |
| 1.198 | 1.151 | -.32920 | -.33000 | -.33020 | -.32730 | -.32960 | -.32960 | -.33640 | -.33960 | .39540 | .38820 |
| 1.198 | 2.198 | -.33130 | -.33300 | -.33180 | -.33130 | -.33100 | -.33100 | -.33570 | -.33830 | .37740 | .41610 |
| 1.198 | 3.245 | -.33700 | -.33570 | -.33760 | -.33700 | -.33470 | -.33470 | -.33960 | -.34380 | .35490 | .44300 |
| 1.200 | 4.283 | -.33520 | -.33780 | -.33650 | -.33520 | -.33600 | -.33600 | -.34160 | -.34380 | .33970 | .46890 |
| 1.198 | 6.355 | -.33890 | -.34410 | -.33940 | -.34200 | -.33390 | -.33390 | -.33830 | -.34280 | .30590 | .52440 |
| GRADIENT | .00150 | .00176 | .00182 | .00157 | .00157 | .00164 | .00164 | .00196 | .00202 | -.01950 | .02475 |

DATE 10 MAR 80

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(E2F0C6) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 87.200 RUDDER = -5.000
 RN/L = 5.000

RUN NO. 502/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| 1.403 | -6.247 | -31230 | -31280 | -31100 | -31240 | -31360 | -31360 | -31540 | -31600 | .58540 | .35360 |
| 1.405 | -2.086 | -31510 | -31530 | -31490 | -31580 | -31710 | -31710 | -31780 | -32020 | .50580 | .42380 |
| 1.404 | -1.035 | -31730 | -31780 | -31670 | -31800 | -31910 | -31910 | -31950 | -32250 | .49240 | .43350 |
| 1.403 | .016 | -31660 | -31630 | -31640 | -31610 | -31680 | -31680 | -31810 | -32140 | .47340 | .44720 |
| 1.403 | .652 | -31460 | -31670 | -31530 | -31610 | -31630 | -31630 | -31820 | -32030 | .47380 | .45260 |
| 1.403 | 1.215 | -31590 | -31770 | -31820 | -31850 | -31780 | -31780 | -31900 | -32170 | .47660 | .45430 |
| 1.403 | 2.212 | -31360 | -31360 | -31440 | -31460 | -31360 | -31360 | -31550 | -31880 | .45760 | .46590 |
| 1.403 | 3.275 | -31350 | -31340 | -31440 | -31340 | -31220 | -31220 | -31540 | -31740 | .43270 | .48420 |
| 1.401 | 4.322 | -31190 | -31000 | -31110 | -31040 | -30940 | -30940 | -31160 | -31480 | .41220 | .50510 |
| 1.401 | 6.409 | -30090 | -30130 | -30240 | -30340 | -29740 | -29740 | -29760 | -30040 | .34630 | .55200 |
| GRADIENT | | .00066 | .00092 | .00056 | .00089 | .00133 | .00133 | .00099 | .00096 | -.01383 | .01210 |

AMES 118-1-11 OAI45A 01

(E2F0C7) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 87.200 RUDDER = -10.000
 RN/L = 5.000

RUN NO. 449/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|--------|
| 1.403 | -6.017 | -27430 | -27530 | -27340 | -27410 | -28100 | -28100 | -28370 | -30000 | .30040 | .01710 |
| 1.405 | -1.911 | -27670 | -27620 | -27570 | -27590 | -28210 | -28210 | -28090 | -30360 | .20330 | .08140 |
| 1.404 | -.872 | -27510 | -27930 | -28200 | -28050 | -28110 | -28110 | -28720 | -30270 | .17550 | .10760 |
| 1.403 | .035 | -27760 | -27780 | -28000 | -28000 | -27860 | -27860 | -28690 | -30560 | .15410 | .13210 |
| 1.403 | .508 | -27360 | -27930 | -27930 | -28100 | -28380 | -28380 | -28750 | -30180 | .14310 | .14100 |
| 1.403 | 1.029 | -27370 | -27490 | -27690 | -27200 | -27770 | -27770 | -28790 | -30250 | .13230 | .15680 |
| 1.403 | 2.093 | -27410 | -27360 | -27110 | -26970 | -27920 | -27920 | -28330 | -29910 | .10630 | .18180 |
| 1.403 | 3.134 | -27450 | -27450 | -27180 | -27380 | -28230 | -28230 | -28450 | -30640 | .07830 | .20580 |
| 1.403 | 4.166 | -28070 | -27660 | -28200 | -27950 | -28130 | -28130 | -28670 | -30300 | .05650 | .23040 |
| 1.401 | 6.222 | -28120 | -28740 | -28320 | -28810 | -28560 | -28560 | -29000 | -30780 | .00100 | .28440 |
| GRADIENT | | .00020 | .00049 | .00039 | .00052 | .00003 | .00003 | -.00025 | .00030 | -.02411 | .02450 |

DATE 10 MAR 60

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AMES 118-1-11 OAI145A 01

(E2F0C7) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000
 AILRON = .000
 SPDRK = .000
 RUDDER = .000
 ELEVON = .000
 BDFLAP = .000
 RUDDER = .000
 RUDDER = .000
 RUDDER = .000

| RUN NO. 467/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | |
|--|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 |
| .905 | -6.104 | -29740 | -29790 | -30230 | -29680 | -33170 | -33170 | -33310 | -34070 |
| .902 | -1.945 | -29780 | -29640 | -29690 | -30070 | -34970 | -34970 | -35690 | -36400 |
| .902 | -.903 | -29880 | -30010 | -29920 | -29730 | -35550 | -35550 | -36010 | -37230 |
| .902 | .143 | -30070 | -30660 | -30370 | -30160 | -35010 | -35010 | -35760 | -36380 |
| .901 | .679 | -30410 | -30380 | -30820 | -30610 | -35300 | -35300 | -36610 | -36430 |
| .901 | 1.181 | -30490 | -30150 | -30170 | -30310 | -35140 | -35140 | -35530 | -36150 |
| .902 | 2.226 | -30820 | -30700 | -30410 | -30060 | -34210 | -34210 | -35290 | -35750 |
| .901 | 3.266 | -31570 | -31070 | -31280 | -31460 | -35450 | -35450 | -35790 | -36270 |
| .900 | 4.307 | -32260 | -33270 | -31920 | -32750 | -36010 | -36010 | -36750 | -37190 |
| .998 | 6.384 | -32620 | -34920 | -33800 | -34660 | -37660 | -37660 | -37990 | -37210 |
| GRADIENT | | -.00398 | -.00450 | -.00317 | -.00388 | -.00070 | -.00070 | -.00066 | -.00005 |
| RUN NO. 493/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | |
| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 |
| 1.198 | -6.064 | -34410 | -34200 | -34200 | -34230 | -34000 | -34000 | -33990 | -33970 |
| 1.199 | -1.936 | -32640 | -32600 | -32670 | -32860 | -32630 | -32630 | -32750 | -33210 |
| 1.200 | -.895 | -32290 | -32810 | -32610 | -32660 | -32810 | -32810 | -33070 | -32970 |
| 1.197 | .163 | -32530 | -32970 | -32760 | -32660 | -33100 | -33100 | -33320 | -33520 |
| 1.201 | .638 | -32530 | -32390 | -32230 | -32130 | -32850 | -32850 | -33240 | -33420 |
| 1.199 | 1.156 | -32800 | -32830 | -33110 | -32890 | -33120 | -33120 | -33150 | -33780 |
| 1.200 | 2.206 | -33130 | -33130 | -33200 | -33330 | -33400 | -33400 | -33420 | -33740 |
| 1.199 | 3.252 | -33610 | -34000 | -33840 | -33760 | -33640 | -33640 | -34210 | -34000 |
| 1.200 | 4.288 | -33950 | -34010 | -33750 | -33910 | -34000 | -34000 | -34390 | -34310 |
| 1.197 | 6.359 | -34460 | -34060 | -33750 | -34190 | -34040 | -34040 | -34070 | -34360 |
| GRADIENT | | -.00252 | -.00244 | -.00220 | -.00222 | -.00214 | -.00214 | -.00254 | -.00194 |
| RUN NO. 503/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | |
| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 |
| 1.402 | -6.127 | -31280 | -31270 | -31210 | -31180 | -31440 | -31440 | -31490 | -31690 |
| 1.404 | -1.969 | -31470 | -31630 | -31560 | -31450 | -31860 | -31860 | -31950 | -32130 |
| 1.404 | -.917 | -31670 | -31690 | -31430 | -31590 | -31770 | -31770 | -31900 | -32070 |
| 1.405 | .162 | -31480 | -31400 | -31490 | -31500 | -31650 | -31650 | -31740 | -31980 |
| 1.403 | .647 | -31550 | -31590 | -31680 | -31660 | -31600 | -31600 | -31750 | -32120 |
| 1.402 | 1.166 | -31340 | -31590 | -31420 | -31480 | -31450 | -31450 | -31580 | -31860 |
| 1.401 | 2.224 | -31390 | -31400 | -31310 | -31390 | -31400 | -31400 | -31400 | -31830 |
| 1.401 | 3.276 | -31130 | -31360 | -31110 | -31160 | -31140 | -31140 | -31210 | -31460 |
| 1.402 | 4.321 | -30910 | -31360 | -31020 | -30980 | -30860 | -30860 | -31190 | -31370 |
| 1.401 | 6.412 | -30130 | -30230 | -30110 | -30030 | -29740 | -29740 | -29800 | -30260 |
| GRADIENT | | .00100 | .00101 | .00088 | .00085 | .00155 | .00155 | .00138 | .00128 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

(E2F0C8) (06 MAR 80)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 AILRON = .000 BOFLAP = -11.700
 SPDGRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 792/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP240 | CP12 | CP13 |
|------|----------|---------|--------|--------|
| .598 | -9.951 | -23590 | .15060 | .13310 |
| .598 | -7.948 | -23740 | .14690 | .12920 |
| .599 | -5.953 | -23730 | .14860 | .13020 |
| .598 | -3.940 | -24300 | .14960 | .12920 |
| .598 | -2.937 | -24210 | .14830 | .13140 |
| .598 | -1.950 | -24400 | .14870 | .13150 |
| .598 | -.949 | -23970 | .14900 | .13420 |
| .598 | .015 | -24400 | .14740 | .13220 |
| .598 | 1.012 | -24660 | .15060 | .13130 |
| .598 | 2.007 | -25110 | .14910 | .13250 |
| .598 | 3.011 | -26340 | .14970 | .12990 |
| .598 | 4.008 | -27020 | .14990 | .13150 |
| .598 | 6.004 | -28950 | .15270 | .13340 |
| .597 | 8.023 | -32210 | .14650 | .12950 |
| .597 | 10.015 | -34900 | .15280 | .13110 |
| | GRADIENT | -.00326 | .00013 | .00006 |

RUN NO. 808/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP240 | CP12 | CP13 |
|------|----------|--------|--------|--------|
| .901 | -9.953 | -29400 | .24470 | .21620 |
| .900 | -7.946 | -31740 | .24130 | .21090 |
| .900 | -5.942 | -31660 | .24170 | .21300 |
| .899 | -3.939 | -33130 | .24100 | .21040 |
| .901 | -2.943 | -33210 | .24080 | .21390 |
| .899 | -1.940 | -33900 | .24050 | .21030 |
| .901 | -.946 | -33510 | .24170 | .21140 |
| .901 | .019 | -32440 | .24060 | .21560 |
| .901 | 1.012 | -33250 | .24380 | .21300 |
| .900 | 2.009 | -32820 | .24040 | .21220 |
| .900 | 3.023 | -32170 | .24350 | .21460 |
| .900 | 4.018 | -32920 | .23990 | .20980 |
| .899 | 6.018 | -33380 | .24230 | .20970 |
| .897 | 7.971 | -34830 | .23830 | .20700 |
| .899 | 10.005 | -35110 | .24500 | .21250 |
| | GRADIENT | .00107 | .00009 | .00008 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1934

AMES 118-1-11 OAI45A 01

(E2F0C9) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 AILRON = .000 BDFLAP = 16.300
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 795/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP240 | CP12 | CP13 |
|------|----------|---------|--------|--------|
| .598 | -9.943 | -26720 | .14870 | .13090 |
| .598 | -7.948 | -25420 | .14900 | .13130 |
| .598 | -5.945 | -25630 | .14510 | .12710 |
| .599 | -3.938 | -24760 | .15090 | .13000 |
| .598 | -2.945 | -24410 | .14870 | .13010 |
| .598 | -1.953 | -23840 | .14680 | .13170 |
| .598 | -.944 | -23670 | .15090 | .13200 |
| .599 | .035 | -23440 | .15120 | .13290 |
| .601 | 1.010 | -23270 | .15480 | .13240 |
| .599 | 2.012 | -24020 | .15300 | .12970 |
| .598 | 3.016 | -24290 | .14970 | .13200 |
| .598 | 4.013 | -25100 | .15050 | .13300 |
| .598 | 6.016 | -26770 | .15120 | .13400 |
| .598 | 8.002 | -30100 | .15250 | .12830 |
| .598 | 10.014 | -32640 | .14900 | .13180 |
| .598 | GRADIENT | -.00016 | .00030 | .00024 |

RUN NO. 811/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP240 | CP12 | CP13 |
|------|----------|--------|---------|---------|
| .902 | -9.949 | -28990 | .23240 | .20470 |
| .900 | -7.938 | -31580 | .23980 | .21070 |
| .900 | -5.937 | -31880 | .24040 | .21090 |
| .900 | -3.937 | -32040 | .24350 | .21270 |
| .899 | -2.943 | -32130 | .23990 | .21000 |
| .901 | -1.937 | -31200 | .24060 | .21390 |
| .900 | -.936 | -31940 | .24090 | .21020 |
| .899 | .016 | -31780 | .24110 | .20930 |
| .900 | 1.015 | -31710 | .23860 | .20940 |
| .900 | 2.023 | -30390 | .23940 | .21200 |
| .899 | 3.026 | -31120 | .24240 | .21200 |
| .900 | 4.013 | -32080 | .24210 | .21200 |
| .896 | 6.009 | -33790 | .23920 | .20960 |
| .899 | 8.009 | -34390 | .24350 | .21330 |
| .899 | 10.007 | -35260 | .24090 | .21070 |
| .899 | GRADIENT | .00079 | -.00005 | -.00002 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1935

AMES 118-1-11 0A145A 01

(E2F0D0) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = .000 BETA = .000
AILRON = .000 BOFLAP = -11.700
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.00

RUN NO. 793/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP240 | CP12 | CP13 |
|------|----------|---------|--------|--------|
| .599 | -9.943 | -.22720 | .07840 | .06950 |
| .599 | -7.950 | -.22500 | .08010 | .06700 |
| .599 | -5.940 | -.22220 | .07840 | .06570 |
| .599 | -3.931 | -.22050 | .07730 | .06610 |
| .599 | -2.947 | -.22540 | .07410 | .06290 |
| .599 | -1.943 | -.23300 | .07680 | .06610 |
| .599 | -.938 | -.22480 | .07590 | .06640 |
| .599 | .017 | -.22260 | .07820 | .06840 |
| .599 | 1.009 | -.23000 | .07850 | .06630 |
| .598 | 2.012 | -.23280 | .07590 | .06820 |
| .598 | 3.021 | -.24320 | .07790 | .06580 |
| .599 | 4.001 | -.24690 | .07810 | .06690 |
| .599 | 6.009 | -.26670 | .07790 | .06460 |
| .599 | 8.018 | -.28700 | .07790 | .06690 |
| .599 | 10.015 | -.31960 | .07760 | .06490 |
| | GRADIENT | -.00309 | .00026 | .00027 |

RUN NO. 809/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .902 | -9.941 | -.23130 | .18000 | .16170 |
| .902 | -7.951 | -.23620 | .18130 | .16490 |
| .902 | -5.945 | -.25060 | .18060 | .16160 |
| .901 | -3.935 | -.26590 | .17950 | .16070 |
| .901 | -2.940 | -.27450 | .17950 | .16070 |
| .901 | -1.948 | -.28030 | .18170 | .16330 |
| .901 | -.938 | -.28450 | .18150 | .16340 |
| .902 | .019 | -.30330 | .18130 | .16360 |
| .901 | 1.014 | -.31570 | .18150 | .16250 |
| .901 | 2.007 | -.32330 | .17760 | .16080 |
| .901 | 3.016 | -.32200 | .17890 | .16100 |
| .901 | 4.016 | -.31420 | .17970 | .16260 |
| .900 | 6.004 | -.31850 | .17930 | .15970 |
| .901 | 8.016 | -.31560 | .17960 | .16210 |
| .901 | 10.005 | -.32770 | .18000 | .16230 |
| | GRADIENT | -.00760 | -.00015 | .00004 |

OAI45 TABULATED FORCE DATA

AMES 118-1-11 OAI45A 01

DATE 10 MAR 80

(E2F0D1) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 BETA = .000
 AILRON = .000 BOFLAP = 16.300
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 796/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP240 | CP12 | CP13 |
|------|----------|---------|--------|--------|
| .599 | -9.949 | -.25910 | .07530 | .06410 |
| .599 | -7.963 | -.24290 | .07590 | .06680 |
| .599 | -5.945 | -.22990 | .07760 | .06880 |
| .600 | -3.941 | -.22550 | .07690 | .06540 |
| .599 | -2.945 | -.22160 | .07440 | .06560 |
| .599 | -1.945 | -.21880 | .07680 | .06560 |
| .599 | -.949 | -.21540 | .07800 | .06620 |
| .598 | .014 | -.21240 | .07690 | .06800 |
| .599 | 1.009 | -.21670 | .07640 | .06490 |
| .598 | 2.012 | -.21970 | .07500 | .06430 |
| .598 | 3.013 | -.21930 | .07720 | .06860 |
| .598 | 4.009 | -.23390 | .07830 | .06480 |
| .599 | 6.016 | -.24730 | .07780 | .06840 |
| .598 | 8.013 | -.27470 | .07540 | .06590 |
| .598 | 10.013 | -.30310 | .07860 | .06590 |
| | GRADIENT | -.00050 | .00015 | .00005 |

RUN NO. 812/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .896 | -9.958 | -.25010 | .17450 | .15990 |
| .902 | -7.953 | -.24850 | .18050 | .16350 |
| .902 | -5.937 | -.25410 | .18160 | .16340 |
| .901 | -3.935 | -.26200 | .18020 | .16140 |
| .900 | -2.930 | -.26130 | .17770 | .16130 |
| .901 | -1.943 | -.27110 | .17650 | .15920 |
| .901 | -.936 | -.27090 | .17690 | .15990 |
| .900 | .017 | -.29270 | .17730 | .15830 |
| .900 | 1.009 | -.28370 | .17920 | .15890 |
| .899 | 2.017 | -.28340 | .17630 | .15940 |
| .900 | 3.018 | -.28640 | .17590 | .15840 |
| .900 | 4.009 | -.29050 | .17710 | .15860 |
| .899 | 6.014 | -.30460 | .17960 | .16030 |
| .899 | 8.013 | -.31470 | .17590 | .15700 |
| .900 | 10.023 | -.31430 | .17890 | .16040 |
| | GRADIENT | -.00381 | -.00027 | -.00034 |

AMES 118-1-11 OAI45A 01

(E2F0D2) (05 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 10.000 BETA = .000
AILRON = .000 BOFLAP = -11.700
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 794/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .598 | -9.948 | -.26340 | .17960 | .15060 |
| .598 | -7.956 | -.26460 | .17820 | .15020 |
| .598 | -5.940 | -.27240 | .17770 | .14630 |
| .598 | -3.936 | -.26700 | .18150 | .15020 |
| .598 | -2.910 | -.26490 | .17870 | .14970 |
| .598 | -1.942 | -.25780 | .18360 | .15340 |
| .598 | -.936 | -.26300 | .18670 | .15060 |
| .598 | .018 | -.25900 | .18130 | .15430 |
| .598 | 1.014 | -.26770 | .18020 | .14940 |
| .599 | 2.015 | -.26790 | .18320 | .15220 |
| .598 | 3.006 | -.27960 | .17950 | .14870 |
| .598 | 4.011 | -.28273 | .18260 | .15240 |
| .598 | 6.011 | -.30600 | .17930 | .14910 |
| .598 | 8.014 | -.32880 | .18350 | .15270 |
| .598 | 10.013 | -.37210 | .18080 | .15000 |
| | GRADIENT | -.00222 | -.00001 | .00004 |

RUN NO. 810/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .902 | -9.941 | -.33790 | .27890 | .24000 |
| .899 | -7.952 | -.35860 | .27330 | .23410 |
| .900 | -5.932 | -.35000 | .27730 | .23850 |
| .900 | -3.937 | -.35960 | .27690 | .23700 |
| .899 | -2.945 | -.35990 | .27520 | .23680 |
| .900 | -1.940 | -.35650 | .27720 | .23860 |
| .900 | -.939 | -.36430 | .27570 | .23500 |
| .899 | .012 | -.35510 | .27930 | .23830 |
| .900 | 1.007 | -.35860 | .27630 | .23550 |
| .900 | 2.015 | -.35390 | .27650 | .23720 |
| .899 | 3.016 | -.36860 | .27290 | .22970 |
| .900 | 4.006 | -.35530 | .27780 | .23830 |
| .898 | 6.012 | -.35830 | .27310 | .23570 |
| .900 | 8.023 | -.35480 | .27580 | .24020 |
| .898 | 10.014 | -.36500 | .27500 | .23540 |
| | GRADIENT | .00003 | -.00007 | -.00031 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(E2F003) (05 MAR 80)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = .000
AILRON = .000
SPDBRK = 25.000
RN/L = 5.000
BETA = .000
BDFLAP = 16.300
RUDDER = .000

RUN NO. 797/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP240 | CP12 | CP13 |
|------|----------|---------|--------|--------|
| .600 | -9.951 | -28820 | .18360 | .15150 |
| .600 | -7.943 | -28450 | .18020 | .15140 |
| .599 | -5.940 | -28770 | .17690 | .14590 |
| .599 | -3.946 | -27240 | .17960 | .14920 |
| .599 | -2.943 | -27260 | .17720 | .14710 |
| .599 | -1.940 | -26570 | .18090 | .14750 |
| .600 | -.944 | -25770 | .18350 | .15230 |
| .599 | .026 | -26070 | .18820 | .15140 |
| .600 | 1.015 | -26190 | .18300 | .15090 |
| .600 | 2.020 | -26570 | .18420 | .15150 |
| .599 | 3.016 | -28040 | .18220 | .14740 |
| .600 | 4.011 | -27560 | .18410 | .15810 |
| .600 | 6.014 | -30190 | .17950 | .15090 |
| .599 | 8.009 | -32560 | .18460 | .15180 |
| .599 | 10.012 | -36650 | .18280 | .14860 |
| .599 | GRADIENT | -.00064 | .00066 | .00072 |

RUN NO. 813/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP240 | CP12 | CP13 |
|------|----------|---------|--------|--------|
| .899 | -9.941 | -35940 | .27430 | .23620 |
| .899 | -7.953 | -36710 | .27240 | .23260 |
| .900 | -5.933 | -36130 | .27200 | .23250 |
| .898 | -3.943 | -35730 | .27160 | .23370 |
| .898 | -2.940 | -36160 | .27030 | .23200 |
| .900 | -1.942 | -35170 | .27640 | .23730 |
| .900 | -.938 | -34960 | .27350 | .23720 |
| .900 | .019 | -35170 | .27410 | .23690 |
| .901 | 1.014 | -34720 | .27510 | .23770 |
| .899 | 2.017 | -35320 | .27190 | .23590 |
| .900 | 3.013 | -35360 | .27440 | .23830 |
| .900 | 4.011 | -35330 | .27440 | .24260 |
| .899 | 6.012 | -36700 | .27420 | .23740 |
| .899 | 8.020 | -36450 | .27530 | .23890 |
| .900 | 10.020 | -36270 | .27580 | .23760 |
| .899 | GRADIENT | -.00066 | .00027 | .00088 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = 5.000
 AILRON = .000 BDFLAP = -11.700
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

| RUN NO. | 786/ 0 | RN/L = 4.96 | GRADIENT INTERVAL = -5.00/ 5.00 |
|---------|--------|-------------|---------------------------------|
| | MACH | ALPHA | CP240 CP12 CP13 |
| | .596 | -5.027 | -.25150 -.04630 -.04060 |
| | .597 | -.057 | -.25300 .07500 .06700 |
| | .596 | 2.482 | -.26410 .12150 .10410 |
| | .597 | 5.001 | -.28830 .14490 .12460 |
| | .597 | 6.048 | -.28210 .16070 .14190 |
| | .597 | 7.097 | -.29100 .16490 .14610 |
| | .597 | 8.151 | -.29460 .17410 .14990 |
| | .597 | 9.122 | -.29130 .17770 .15350 |
| | .597 | 10.125 | -.29000 .18110 .15280 |
| | .596 | 11.157 | -.30490 .18220 .14810 |
| | .597 | 12.149 | -.32160 .17880 .14710 |
| | .597 | 13.156 | -.34200 .17680 .14280 |
| | .595 | 15.186 | -.36620 .16100 .12200 |
| | | GRADIENT | -.00437 .01831 .01461 |

| RUN NO. | 807/ 0 | RN/L = 4.98 | GRADIENT INTERVAL = -5.00/ 5.00 |
|---------|--------|-------------|---------------------------------|
| | MACH | ALPHA | CP240 CP12 CP13 |
| | .902 | -5.053 | -.33610 .08750 .08980 |
| | .902 | -.034 | -.31420 .18060 .16230 |
| | .904 | 2.486 | -.33520 .21340 .18960 |
| | .902 | 5.054 | -.33040 .24100 .21140 |
| | .900 | 6.087 | -.33050 .25350 .21810 |
| | .902 | 7.092 | -.33280 .26430 .22880 |
| | .900 | 8.129 | -.35160 .26670 .23930 |
| | .900 | 9.149 | -.35820 .26940 .23320 |
| | .899 | 10.167 | -.35760 .27710 .23600 |
| | .901 | 11.186 | -.36190 .27680 .23770 |
| | .902 | 12.197 | -.37820 .28110 .23720 |
| | .900 | 13.205 | -.39690 .27770 .23230 |
| | .903 | 15.221 | -.42220 .27860 .23350 |
| | | GRADIENT | -.00833 .01301 .01083 |

DATE 10 MAR 80

OAI145 TABULATED FORCE DATA

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AMES 118-1-11 OAI145A 01

(E2F005) (05 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = 5.000
AILRON = .000 BDFLAP = 16.300
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 798/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .600 | -5.035 | -.23040 | -.04320 | -.03820 |
| .600 | -.041 | -.23490 | .08080 | .06900 |
| .598 | 2.488 | -.25040 | .12030 | .10190 |
| .597 | 4.997 | -.26820 | .14990 | .13300 |
| .599 | 6.052 | -.27590 | .16300 | .13850 |
| .598 | 7.084 | -.27950 | .17000 | .14810 |
| .599 | 8.113 | -.28740 | .17360 | .15000 |
| .598 | 9.124 | -.29350 | .17710 | .14900 |
| .599 | 10.122 | -.29420 | .18160 | .15000 |
| .599 | 11.157 | -.30650 | .18230 | .14630 |
| .599 | 12.174 | -.33210 | .17760 | .14310 |
| .599 | 13.177 | -.34600 | .17400 | .14180 |
| .598 | 15.178 | -.36050 | .16350 | .12770 |
| | GRADIENT | -.00661 | .01372 | .01270 |

RUN NO. 816/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|--------|--------|
| .899 | -5.065 | -.31670 | .08130 | .08500 |
| .899 | -.034 | -.28750 | .17770 | .16040 |
| .899 | 2.521 | -.31710 | .20790 | .18590 |
| .900 | 5.065 | -.32870 | .23860 | .20800 |
| .898 | 6.084 | -.32790 | .25210 | .21660 |
| .903 | 7.108 | -.33810 | .26240 | .22800 |
| .898 | 8.141 | -.35910 | .26030 | .22520 |
| .901 | 9.165 | -.35830 | .26780 | .23560 |
| .898 | 10.163 | -.35960 | .27270 | .23530 |
| .896 | 11.187 | -.36590 | .27550 | .23380 |
| .895 | 12.199 | -.37770 | .27530 | .23390 |
| .900 | 13.208 | -.39370 | .27780 | .23340 |
| .899 | 15.224 | -.43620 | .26950 | .22570 |
| | GRADIENT | -.01159 | .01182 | .00998 |

0A145 TABULATED FORCE DATA
AMES 118-1-11 0A145A 01

DATE 10 MAR 80

(E2F0D6) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = -5.000
AILRON = .000 BDFLAP = -11.700
SPOBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 787/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .597 | -5.085 | -.24580 | -.04710 | -.04140 |
| .599 | -.094 | -.21870 | .08120 | .06900 |
| .598 | 2.463 | -.22410 | .12170 | .10500 |
| .597 | 4.975 | -.24130 | .14730 | .12790 |
| .597 | 6.010 | -.24180 | .15910 | .13960 |
| .597 | 7.040 | -.25200 | .16410 | .14440 |
| .596 | 8.014 | -.25950 | .17060 | .14750 |
| .596 | 9.038 | -.26070 | .17880 | .15460 |
| .597 | 10.086 | -.26890 | .17920 | .15070 |
| .598 | 11.092 | -.27210 | .18050 | .15260 |
| .599 | 12.137 | -.28440 | .17990 | .14760 |
| .598 | 13.130 | -.29990 | .17410 | .14330 |
| .598 | 15.157 | -.32740 | .16120 | .12830 |
| | GRADIENT | -.00445 | .01305 | .01163 |

RUN NO. 806/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|--------|--------|
| .902 | -5.081 | -.26540 | .09040 | .09140 |
| .900 | -.087 | -.25410 | .18210 | .16270 |
| .904 | 2.432 | -.28390 | .21440 | .19080 |
| .900 | 4.985 | -.32630 | .23780 | .20960 |
| .901 | 6.021 | -.32560 | .25210 | .21900 |
| .901 | 7.042 | -.34020 | .26080 | .22390 |
| .899 | 8.089 | -.36540 | .26230 | .22570 |
| .900 | 9.108 | -.35720 | .26990 | .23480 |
| .900 | 10.131 | -.35900 | .27450 | .23690 |
| .901 | 11.149 | -.36840 | .27650 | .23520 |
| .899 | 12.185 | -.38550 | .28010 | .23720 |
| .900 | 13.178 | -.41540 | .27770 | .23090 |
| .903 | 15.213 | -.44190 | .27560 | .23080 |
| | GRADIENT | -.01424 | .01098 | .00924 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

AMES 118-1-11 0A145A 01

(E2F007) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETA = .000 ELEVON = -5.000
AILRON = .000 BOFLAP = 16.300
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 799/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .600 | -5.058 | -.24870 | -.04690 | -.04020 |
| .602 | -.056 | -.22750 | .08080 | .06820 |
| .598 | 2.453 | -.23380 | .12060 | .10370 |
| .598 | 4.959 | -.25180 | .14850 | .12960 |
| .599 | 5.990 | -.25840 | .15670 | .13660 |
| .599 | 7.022 | -.26240 | .16880 | .14430 |
| .600 | 8.032 | -.26260 | .17300 | .15000 |
| .600 | 9.073 | -.26710 | .18110 | .15430 |
| .599 | 10.110 | -.27500 | .18270 | .15210 |
| .599 | 11.124 | -.28620 | .176 0 | .14870 |
| .599 | 12.139 | -.29660 | .17970 | .14370 |
| .598 | 13.145 | -.30930 | .17830 | .14460 |
| .598 | 15.159 | -.33300 | .16690 | .12900 |
| | GRADIENT | -.00485 | .01350 | .01224 |

RUN NO. 817/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|--------|--------|
| .899 | -5.110 | -.27950 | .08040 | .08450 |
| .900 | -.086 | -.25640 | .17560 | .15960 |
| .899 | 2.453 | -.28690 | .20790 | .18470 |
| .897 | 5.014 | -.33920 | .22860 | .19990 |
| .897 | 6.059 | -.32320 | .24780 | .21720 |
| .898 | 7.086 | -.34550 | .25580 | .21860 |
| .897 | 8.115 | -.34910 | .26080 | .22780 |
| .898 | 9.134 | -.36570 | .26600 | .22940 |
| .898 | 10.144 | -.36230 | .27100 | .23120 |
| .901 | 11.178 | -.36910 | .27380 | .23270 |
| .897 | 12.180 | -.38330 | .27500 | .23350 |
| .896 | 13.188 | -.41070 | .27400 | .22750 |
| .900 | 15.212 | -.44650 | .27130 | .22730 |
| | GRADIENT | -.01201 | .01272 | .00988 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1943

AMES 118-1-11 OAI45A 01

(E2F008) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.8800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELEVON = 5.000 AILRON = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 790/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BOFLAP | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .597 | -11.642 | -.27720 | .15340 | .13350 |
| .598 | -7.950 | -.26870 | .15360 | .13490 |
| .597 | -5.938 | -.27330 | .15050 | .12970 |
| .598 | -3.961 | -.26890 | .14930 | .13090 |
| .597 | -1.940 | -.26590 | .15050 | .13140 |
| .597 | .010 | -.26560 | .15110 | .13140 |
| .597 | 2.008 | -.26280 | .15240 | .13400 |
| .597 | 4.007 | -.26900 | .14810 | .12850 |
| .597 | 6.010 | -.26330 | .15060 | .13430 |
| .597 | 8.030 | -.26350 | .15390 | .13460 |
| .597 | 12.020 | -.26870 | .15200 | .13230 |
| .597 | 16.308 | -.27110 | .15230 | .13200 |
| .597 | 22.528 | -.28840 | .14990 | .13170 |
| .597 | GRADIENT | .00015 | -.00003 | -.00011 |

RUN NO. 804/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BOFLAP | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .903 | -11.642 | -.31740 | .24540 | .22020 |
| .902 | -7.940 | -.32160 | .24310 | .21330 |
| .901 | -5.927 | -.32250 | .24130 | .21170 |
| .902 | -3.950 | -.31890 | .24370 | .21180 |
| .902 | -1.931 | -.30540 | .24360 | .21730 |
| .902 | .029 | -.31300 | .24390 | .21300 |
| .901 | 2.017 | -.31410 | .24320 | .21160 |
| .902 | 4.007 | -.31340 | .24250 | .21280 |
| .902 | 6.000 | -.30860 | .24230 | .21500 |
| .901 | 8.030 | -.31550 | .24070 | .21140 |
| .901 | 12.009 | -.31360 | .24150 | .21200 |
| .901 | 16.308 | -.33110 | .24150 | .20990 |
| .899 | 22.537 | -.33650 | .24100 | .21060 |
| .899 | GRADIENT | .00012 | -.00014 | -.00018 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

AMES 118-1-11 0A145A 01

(E2F0D9) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 50.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = -5.000 AILRON = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 791/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BOFLAP | CP240 | CP12 | CP13 |
|------|----------|---------|--------|---------|
| .599 | -11.642 | -.23590 | .15120 | .13380 |
| .598 | -7.940 | -.23240 | .15150 | .13280 |
| .598 | -5.938 | -.23290 | .15000 | .13040 |
| .598 | -3.903 | -.23100 | .14990 | .13150 |
| .598 | -1.871 | -.22910 | .15020 | .13150 |
| .598 | .029 | -.22930 | .14650 | .13050 |
| .598 | 2.027 | -.22880 | .15020 | .13090 |
| .598 | 3.996 | -.23170 | .14990 | .13000 |
| .598 | 6.000 | -.22880 | .15060 | .13170 |
| .598 | 8.020 | -.22910 | .14900 | .13090 |
| .598 | 11.999 | -.23710 | .14960 | .12970 |
| .598 | 16.328 | -.24770 | .15150 | .13340 |
| .598 | 22.547 | -.27010 | .14790 | .13050 |
| | GRADIENT | -.00005 | .00000 | -.00018 |

RUN NO. 805/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BOFLAP | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .902 | -11.631 | -.33020 | .24250 | .21390 |
| .902 | -7.940 | -.32230 | .24220 | .21180 |
| .902 | -5.948 | -.32370 | .24140 | .21140 |
| .901 | -3.940 | -.32250 | .24100 | .21110 |
| .902 | -1.940 | -.30430 | .24240 | .21750 |
| .902 | .010 | -.31080 | .24300 | .21340 |
| .901 | 1.998 | -.32000 | .23930 | .21010 |
| .902 | 3.996 | -.31740 | .24140 | .21150 |
| .901 | 6.010 | -.32190 | .23850 | .20910 |
| .901 | 8.000 | -.31710 | .24200 | .21140 |
| .901 | 12.009 | -.31970 | .24160 | .21170 |
| .900 | 16.308 | -.33340 | .23890 | .20830 |
| .899 | 22.528 | -.33810 | .24000 | .21030 |
| | GRADIENT | -.00027 | -.00012 | -.00033 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

AMES 118-1-11 OAI45A 01

(E2F0E0) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.8800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

RUN NO. 788/ 0 RN/L = 4.98

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELEVON = .000 AILRON = .000
BDFLAP = -11.700 SPDBRK = 25.000
RN/L = 5.000

GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP240 | CP12 | CP13 |
|------|----------|--------|--------|--------|
| .598 | -14.976 | -25070 | .15000 | .13520 |
| .597 | -10.736 | -25180 | .14880 | .12920 |
| .597 | -4.939 | -24420 | .14780 | .13180 |
| .597 | -2.442 | -24690 | .14910 | .12830 |
| .598 | .089 | -24310 | .14850 | .13160 |
| .598 | 2.522 | -23980 | .15310 | .13390 |
| .598 | 5.005 | -24450 | .14830 | .13100 |
| .597 | 10.011 | -24450 | .15060 | .13280 |
| .598 | 15.031 | -25020 | .14960 | .13030 |
| .597 | 18.134 | -25450 | .15330 | .12860 |
| .597 | 22.649 | -25430 | .15140 | .13120 |
| | GRADIENT | .00069 | .00063 | .00039 |

RUN NO. 803/ 0 RN/L = 5.00

GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .902 | -14.976 | -35080 | .24150 | .21200 |
| .902 | -10.745 | -34640 | .23970 | .21090 |
| .902 | -4.939 | -33350 | .24350 | .21490 |
| .902 | -2.442 | -34100 | .24250 | .21050 |
| .902 | .096 | -33600 | .24270 | .21250 |
| .902 | 2.505 | -34080 | .24120 | .21100 |
| .902 | 5.014 | -33820 | .24280 | .21190 |
| .902 | 10.003 | -34470 | .24050 | .21050 |
| .902 | 15.005 | -34250 | .24080 | .21130 |
| .901 | 18.125 | -34330 | .24030 | .21050 |
| .902 | 22.602 | -33380 | .24350 | .21390 |
| | GRADIENT | -.00070 | -.00027 | -.00040 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELEVON = .000 AILRON = .000
BOFLAP = 16.300 SPDBRK = 25.000
RN/L = 5.000

RUN NO. 800/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .600 | -14.970 | -.24150 | .14960 | .12980 |
| .600 | -10.754 | -.23370 | .15110 | .13190 |
| .600 | -4.939 | -.22770 | .15210 | .13600 |
| .600 | -2.442 | -.23600 | .14860 | .13090 |
| .600 | -1.110 | -.24090 | .14840 | .12780 |
| .600 | 2.513 | -.23780 | .15180 | .13060 |
| .600 | 5.014 | -.23120 | .15150 | .13540 |
| .600 | 10.011 | -.23730 | .15170 | .13050 |
| .600 | 15.022 | -.23710 | .15210 | .13060 |
| .600 | 18.116 | -.23640 | .15260 | .13290 |
| .600 | 22.639 | -.23710 | .15300 | .13390 |
| | GRADIENT | -.00141 | -.00004 | -.00077 |

RUN NO. 814/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP240 | CP12 | CP13 |
|------|----------|---------|--------|--------|
| .900 | -14.960 | -.32350 | .23990 | .21220 |
| .900 | -10.727 | -.31570 | .24070 | .21230 |
| .900 | -4.961 | -.32630 | .23740 | .20770 |
| .901 | -2.434 | -.32300 | .24080 | .21030 |
| .900 | -1.116 | -.32030 | .23920 | .21040 |
| .900 | 2.513 | -.32440 | .23860 | .20890 |
| .900 | 5.005 | -.32240 | .23780 | .20920 |
| .900 | 10.003 | -.31810 | .24070 | .21010 |
| .901 | 15.005 | -.31690 | .24220 | .21290 |
| .901 | 18.125 | -.32300 | .24000 | .21100 |
| .901 | 22.564 | -.32120 | .24220 | .21190 |
| | GRADIENT | .00033 | .00008 | .00015 |

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

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(E2F0E2) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = -11.700
SPDBRK = 25.000 RUDDER = -5.000
RN/L = 5.000

RUN NO. 789/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .597 | -6.052 | -.23780 | .29460 | -.01360 |
| .597 | -1.918 | -.24400 | .19870 | .08200 |
| .597 | -.870 | -.24400 | .17300 | .10710 |
| .597 | .034 | -.24800 | .14570 | .12820 |
| .597 | .648 | -.24280 | .13700 | .14710 |
| .597 | 1.155 | -.24720 | .12300 | .15600 |
| .597 | 2.192 | -.25280 | .09470 | .17830 |
| .597 | 3.223 | -.24670 | .07490 | .20650 |
| .597 | 4.257 | -.24380 | .05120 | .23250 |
| .596 | 6.318 | -.24660 | .00270 | .27950 |
| .596 | 8.361 | -.25260 | -.05470 | .32670 |
| | GRADIENT | -.00038 | -.02390 | .02421 |

RUN NO. 802/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .901 | -6.123 | -.31610 | .38630 | .05660 |
| .902 | -1.948 | -.32760 | .29160 | .16240 |
| .901 | -.899 | -.33480 | .26590 | .18700 |
| .900 | .160 | -.34590 | .23810 | .21120 |
| .901 | .671 | -.34210 | .22690 | .22410 |
| .900 | 1.182 | -.33890 | .21700 | .23850 |
| .900 | 2.226 | -.34950 | .18700 | .26170 |
| .900 | 3.269 | -.34630 | .16670 | .29190 |
| .899 | 4.312 | -.36050 | .13880 | .31360 |
| .896 | 6.387 | -.36700 | .08740 | .36660 |
| .896 | 8.449 | -.36830 | .04570 | .41910 |
| | GRADIENT | -.00428 | -.02425 | .02448 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1948

AMES 118-1-11 OAI45A 01

(EEF0E3) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = 16.300
SPDBRK = 25.000 RUDDER = -5.000
RN/L = 5.000

RUN NO. 801/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .601 | -6.038 | -.23390 | .29480 | -.01610 |
| .601 | -1.924 | -.23090 | .20190 | .08470 |
| .600 | -.888 | -.23170 | .17450 | .10940 |
| .600 | .033 | -.23120 | .15370 | .13130 |
| .600 | .672 | -.23450 | .13770 | .14680 |
| .600 | 1.156 | -.23400 | .12400 | .16140 |
| .600 | 2.190 | -.23560 | .10430 | .18410 |
| .599 | 3.221 | -.24110 | .07260 | .20710 |
| .599 | 4.257 | -.23870 | .05010 | .23230 |
| .599 | 6.316 | -.24040 | .00680 | .28210 |
| .598 | 8.363 | -.24680 | -.04670 | .32900 |
| .598 | 9.966 | -.23850 | -.07600 | .37190 |
| .600 | GRADIENT | -.00161 | -.02451 | .02390 |

RUN NO. 815/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .899 | -6.107 | -.31010 | .38630 | .05810 |
| .900 | -1.944 | -.31820 | .29250 | .16000 |
| .899 | -.901 | -.31920 | .26240 | .18400 |
| .900 | .122 | -.31760 | .23720 | .21180 |
| .899 | .699 | -.31590 | .22650 | .22700 |
| .899 | 1.181 | -.31660 | .21500 | .23850 |
| .899 | 2.217 | -.32560 | .18820 | .26230 |
| .898 | 3.259 | -.32500 | .16210 | .29140 |
| .898 | 4.299 | -.32860 | .14020 | .31640 |
| .898 | 6.371 | -.33710 | .09440 | .36900 |
| .894 | 8.429 | -.34930 | .04220 | .41900 |
| .895 | 10.480 | -.35620 | -.00640 | .46880 |
| .895 | GRADIENT | -.00181 | -.02425 | .02519 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1949

AMES 118-1-11 OAI45A 01

(E2F0E4) (05 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELEVON = .000 AILRON = .000
SPDBRK = .000 RUDDER = .000
RN/L = 5.000

RUN NO. 656/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BDFLAP | CP240 | CP12 | CP13 |
|------|----------|---------|--------|--------|
| .598 | -11.653 | -.23870 | .15430 | .13070 |
| .598 | -7.940 | -.24030 | .15230 | .12760 |
| .598 | -5.927 | -.23370 | .15330 | .13060 |
| .598 | -3.950 | -.23340 | .15150 | .12850 |
| .599 | -1.950 | -.22810 | .15510 | .13130 |
| .598 | .010 | -.22910 | .15360 | .13000 |
| .598 | 1.998 | -.22670 | .15620 | .13060 |
| .598 | 3.996 | -.22230 | .15430 | .13420 |
| .598 | 6.020 | -.22760 | .15270 | .13060 |
| .598 | 8.010 | -.23120 | .15120 | .12820 |
| .598 | 11.999 | -.23100 | .15590 | .13000 |
| .598 | 16.308 | -.23240 | .15390 | .13270 |
| .598 | 22.547 | -.24630 | .15800 | .13210 |
| | GRADIENT | .00119 | .00034 | .00054 |

RUN NO. 643/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BDFLAP | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .900 | -11.653 | -.34210 | .24500 | .21050 |
| .900 | -7.960 | -.34240 | .24190 | .20830 |
| .900 | -5.948 | -.33760 | .24360 | .20870 |
| .901 | -3.950 | -.33740 | .24370 | .20760 |
| .901 | -1.940 | -.32890 | .24500 | .21070 |
| .900 | .019 | -.32610 | .24710 | .21000 |
| .901 | 1.998 | -.32050 | .24450 | .21220 |
| .900 | 3.996 | -.32680 | .24320 | .20820 |
| .901 | 6.000 | -.31970 | .24650 | .21050 |
| .900 | 8.020 | -.31700 | .24600 | .20980 |
| .900 | 12.009 | -.31930 | .24590 | .20970 |
| .899 | 16.308 | -.30860 | .24580 | .21270 |
| .900 | 22.528 | -.33390 | .24260 | .20550 |
| | GRADIENT | .00145 | -.00008 | .00014 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

AMES 118-1-11 OAI45A 01

(E2F0E5) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 SPOBRK = 55.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 597/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BDFLAP | CP240 | CP12 | CP13 |
|------|----------|---------|--------|---------|
| .396 | -11.653 | -.25510 | .14540 | .12530 |
| .396 | -7.940 | -.25340 | .13500 | .11410 |
| .396 | -5.948 | -.24550 | .13460 | .11580 |
| .395 | -3.866 | -.24150 | .13400 | .11680 |
| .395 | -1.940 | -.24220 | .13380 | .11440 |
| .394 | .019 | -.24500 | .13010 | .11250 |
| .396 | 2.008 | -.24860 | .13160 | .11110 |
| .397 | 3.975 | -.24200 | .13520 | .11700 |
| .397 | 6.010 | -.24580 | .13290 | .11510 |
| .397 | 8.010 | -.24440 | .13370 | .11590 |
| .397 | 11.999 | -.24370 | .13370 | .11590 |
| .398 | 16.318 | -.24670 | .13690 | .11700 |
| .397 | 22.547 | -.26400 | .13630 | .11630 |
| | GRADIENT | -.00038 | .00001 | -.00015 |

RUN NO. 555/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BDFLAP | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .597 | -11.653 | -.27570 | .15680 | .12890 |
| .597 | -7.950 | -.26280 | .15550 | .13090 |
| .598 | -5.938 | -.25060 | .15670 | .13680 |
| .598 | -3.950 | -.24740 | .15660 | .13580 |
| .598 | -1.940 | -.24530 | .15510 | .13590 |
| .597 | .029 | -.24540 | .15710 | .13550 |
| .597 | 1.998 | -.24390 | .15730 | .13320 |
| .597 | 3.996 | -.25170 | .15350 | .13090 |
| .597 | 6.010 | -.24470 | .15820 | .13680 |
| .597 | 8.010 | -.24410 | .15870 | .13620 |
| .597 | 12.009 | -.25020 | .15770 | .13420 |
| .597 | 16.318 | -.25670 | .15600 | .13280 |
| .597 | 22.528 | -.27610 | .15870 | .13220 |
| | GRADIENT | -.00061 | -.00020 | -.00063 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

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(E2F0E5) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

RUN NO. 569/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELEVON = .000 AILRON = .000
SPDBRK = 55.000 RUDDER = .000
RN/L = 5.000

| MACH | BDFLAP | CP240 | CP12 | CP13 |
|------|----------|----------|---------|---------|
| .899 | -11.653 | -33260 | .24380 | .21130 |
| .899 | -7.950 | .73570 | .87070 | .85120 |
| .899 | -5.927 | -33210 | .24210 | .20820 |
| .900 | -3.930 | 1.30590 | .73390 | .71510 |
| .901 | -1.940 | .32800 | .24520 | .20810 |
| .899 | .019 | 2.80200 | .68840 | .70180 |
| .900 | 2.008 | -32470 | .24210 | .20840 |
| .900 | 4.007 | -25280 | -25400 | -25330 |
| .900 | 6.000 | -31770 | .24480 | .20980 |
| .900 | 8.020 | -1.18170 | .49840 | .51220 |
| .899 | 12.009 | -31650 | .24490 | .20950 |
| .900 | 16.318 | -96350 | .64640 | .66410 |
| .899 | 22.585 | -35120 | .24040 | .20690 |
| | GRADIENT | -1.5807 | -1.0009 | -.09795 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

RUN NO. 844/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

AMES 118-1-11 OAI45A 01

(E2F0E6) (08 JUL 77)

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELV-OB = .000 AILRON = .000
BDFLAP = .000 SPDBRK = 25.000
RUDDER = .000 RN/L = 5.000

| MACH | ELV-IB | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| .596 | -3.930 | -20590 | -20850 | -20660 | -20400 | -22560 | -22560 | -23420 | -25150 | .14970 | .13200 |
| .596 | -1.941 | -20550 | -20860 | -20220 | -21050 | -23030 | -23030 | -23770 | -24960 | .14830 | .12860 |
| .597 | .040 | -20370 | -20640 | -20640 | -20370 | -22730 | -22730 | -23700 | -24580 | .15090 | .13250 |
| .596 | 2.017 | -20700 | -20820 | -21060 | -20800 | -23330 | -23330 | -24540 | -25970 | .14980 | .13170 |
| .596 | 4.010 | -21510 | -21630 | -21680 | -21250 | -23990 | -23990 | -24870 | -26470 | .15010 | .13160 |
| | GRADIENT | -.00100 | -.00077 | -.00145 | -.00073 | -.00159 | -.00159 | -.00185 | -.00184 | .00012 | .00012 |

OAI45 TABULATED FORCE DATA

AMES 118-1-11 OAI45A 01

DATE 10 MAR 80

(E2F0E6) (08 JUL 77)

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELV-OB = .000 AILRON = .000
BOFLAP = .000 SPDBRK = 25.000
RUDDER = .000 RN/L = 5.000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

RUN NO. 838/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | | | | | | | | |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MACH | ELV-1B | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
| .900 | -3.925 | -21770 | -22120 | -22230 | -22640 | -30640 | -30640 | -31050 | -32290 | .23660 | .20880 |
| .900 | -1.935 | -22900 | -23050 | -23250 | -22570 | -31790 | -31790 | -32880 | -32040 | .23720 | .20730 |
| .899 | .030 | -23720 | -23550 | -23380 | -23290 | -32470 | -32470 | -32660 | -34070 | .23750 | .20750 |
| .900 | 2.012 | -24730 | -23790 | -24580 | -24870 | -32560 | -32560 | -33560 | -33460 | .24050 | .20970 |
| .900 | 3.996 | -24290 | -25090 | -25260 | -25180 | -33260 | -33260 | -33650 | -35230 | .24100 | .21110 |
| | GRADIENT | .00347 | .00338 | .00419 | .00373 | .00304 | .00304 | .00297 | .00369 | .00041 | .00035 |

RUN NO. 820/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | | | | | | | | |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MACH | ELV-1B | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
| 1.198 | -3.936 | -29880 | -30240 | -30270 | -30270 | -30530 | -30530 | -30940 | -31750 | .40900 | .35810 |
| 1.199 | -1.941 | -29520 | -29510 | -29380 | -29110 | -30660 | -30660 | -31030 | -31400 | .40920 | .35860 |
| 1.199 | .010 | -29580 | -29650 | -29790 | -29840 | -30870 | -30870 | -31170 | -32120 | .40920 | .35840 |
| 1.199 | 2.022 | -30150 | -30040 | -30050 | -30220 | -31480 | -31480 | -31760 | -32090 | .40970 | .35860 |
| 1.200 | 4.010 | -31380 | -31500 | -31170 | -31540 | -32080 | -32080 | -33520 | -33380 | .41010 | .35920 |
| | GRADIENT | .00183 | .00154 | .00125 | .00184 | .00198 | .00198 | .00297 | .00199 | .00014 | .00011 |

AMES 118-1-11 OAI45A 01

(E2F0E7) (08 JUL 77)

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELV-OB = .000 AILRON = .000
BOFLAP = .000 SPDBRK = 25.000
RUDDER = .000 RN/L = 5.000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

RUN NO. 845/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | | | | | | | | |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MACH | ELV-1B | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
| .597 | 1.025 | -20720 | -21010 | -20670 | -20940 | -24570 | -24570 | -25950 | -28330 | .15050 | .13360 |
| .597 | 3.022 | -21320 | -21390 | -21010 | -21370 | -25240 | -25240 | -26930 | -28810 | .15080 | .13120 |
| .596 | 5.016 | -21750 | -22180 | -21580 | -22010 | -26480 | -26480 | -28260 | -30050 | .14900 | .13000 |
| .597 | 7.008 | -22590 | -22510 | -22660 | -22540 | -26950 | -26950 | -29200 | -31150 | .15420 | .13550 |
| | GRADIENT | .00300 | .00190 | .00170 | .00215 | .00335 | .00335 | .00491 | .00240 | .00015 | .00120 |

DATE 10 MAR 80

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(E2F0E7) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 839/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-18 | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|
| .901 | 1.010 | -23570 | -23410 | -23360 | -23700 | -30910 | -30910 | -31080 | -30470 | .24050 | .20840 |
| .900 | 3.023 | -23970 | -24720 | -25030 | -24750 | -30730 | -30730 | -31240 | -32070 | .24010 | .20970 |
| .900 | 4.998 | -25990 | -25650 | -25380 | -25500 | -30850 | -30850 | -32340 | -32090 | .24170 | .21340 |
| .900 | 7.002 | -26300 | -26170 | -26530 | -26900 | -32760 | -32760 | -33310 | -33220 | .24140 | .20850 |
| .898 | 9.023 | -27860 | -27380 | -26870 | -27420 | -33680 | -33680 | -33910 | -34350 | .23790 | .20640 |
| | GRADIENT | -20605 | -20562 | -20508 | -20452 | .00015 | .00015 | .00315 | -200407 | .00030 | .00125 |

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELV-OB = 5.000 AILRON = .000
 BDFLAP = .000 SPDBRK = 25.000
 RUDDER = .000 RN/L = 5.000

RUN NO. 821/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-18 | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|---------|---------|---------|---------|--------|--------|--------|---------|--------|--------|
| 1.200 | 1.005 | -29980 | -30290 | -30110 | -30010 | -30560 | -30560 | -30950 | -31490 | .41250 | .36150 |
| 1.201 | 3.007 | -30670 | -30850 | -30900 | -30620 | -31430 | -31430 | -31650 | -32130 | .41090 | .35980 |
| 1.200 | 4.998 | -31700 | -31530 | -31290 | -31210 | -31820 | -31820 | -32480 | -32560 | .40990 | .35930 |
| 1.199 | 6.999 | -32180 | -32380 | -32020 | -31900 | -32720 | -32720 | -32740 | -33520 | .41170 | .35940 |
| 1.200 | 9.025 | -32780 | -32820 | -32610 | -32290 | -33370 | -33370 | -33470 | -34000 | .41160 | .35940 |
| | GRADIENT | -200431 | -200310 | -200296 | -200301 | .00316 | .00316 | .00383 | -200268 | .00065 | .00055 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 846/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-18 | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .600 | -8.929 | -19070 | -18810 | -18620 | -18960 | -21980 | -21980 | -22640 | -23320 | .15250 | .13540 |
| .598 | -6.943 | -19470 | -19520 | -19630 | -19970 | -22510 | -22510 | -22820 | -23600 | .14950 | .13340 |
| .598 | -4.925 | -20440 | -19870 | -19820 | -20080 | -23260 | -23260 | -23550 | -24420 | .15080 | .12850 |
| .597 | -2.930 | -20550 | -20700 | -20650 | -20410 | -23270 | -23270 | -23530 | -24860 | .14920 | .13100 |
| .598 | -942 | -20090 | -20020 | -20450 | -20450 | -23240 | -23240 | -23910 | -23980 | .15070 | .13260 |
| | GRADIENT | .00088 | .00038 | .00206 | .00093 | .00005 | .00005 | .00090 | .00135 | .00003 | .00103 |

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELV-OB = -5.000 AILRON = .000
 BDFLAP = .000 SPDBRK = 25.000
 RUDDER = .000 RN/L = 5.000

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(E2F0E8) (08 JUL 77)

DATE 10 MAR 80

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(E2F0E8) (08 JUL 77)

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REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

ALPHA =
 ELV-OB =
 BDFLAP =
 RUDDER =

BETA = .000
 AILRON = .000
 SPDBRK = 25.000
 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 840/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-OB | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|
| .900 | -8.940 | -21530 | -21100 | -20810 | -20710 | -30460 | -30460 | -31020 | -31150 | .23860 | .20880 |
| .900 | -6.932 | -21260 | -20800 | -21050 | -21000 | -31000 | -31000 | -31820 | -32170 | .23810 | .20780 |
| .900 | -4.925 | -21230 | -21150 | -21210 | -21200 | -31790 | -31790 | -32000 | -31640 | .23720 | .20700 |
| .900 | -2.935 | -21930 | -22270 | -22680 | -22340 | -32430 | -32430 | -32910 | -34100 | .23960 | .20800 |
| .899 | -911 | -23150 | -23020 | -22230 | -22400 | -33330 | -33330 | -34130 | -33760 | .23820 | .20610 |
| | GRADIENT | -200479 | -200466 | -200253 | -200298 | -200384 | -200384 | -200531 | -200526 | .00025 | -200023 |

RUN NO. 822/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-OB | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|---------|---------|--------|---------|---------|---------|---------|---------|---------|
| 1.205 | -8.940 | -27360 | -27290 | -27430 | -27080 | -26880 | -26880 | -26900 | -26980 | .41330 | .36360 |
| 1.200 | -6.942 | -29100 | -28520 | -28550 | -28930 | -28610 | -28610 | -29180 | -29400 | .41010 | .36080 |
| 1.201 | -4.936 | -29370 | -29030 | -29000 | -29360 | -29410 | -29410 | -29890 | -30890 | .41310 | .36280 |
| 1.200 | -2.930 | -29420 | -29090 | -29320 | -28900 | -29350 | -29350 | -30110 | -30840 | .41040 | .36080 |
| 1.200 | -936 | -29110 | -29230 | -29060 | -29040 | -30310 | -30310 | -30800 | -31300 | .41010 | .35870 |
| | GRADIENT | .00065 | -200050 | -200015 | .00080 | -200225 | -200225 | -200227 | -200102 | -200075 | -200103 |

AMES 118-1-11 OAI45A 01

(E2F0E9) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0500

XMRP = 1076.6800 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

ALPHA =
 ELV-OB =
 BDFLAP =
 RUDDER =

BETA = .000
 AILRON = .000
 SPDBRK = 25.000
 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 847/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-OB | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|---------|---------|--------|---------|---------|---------|---------|--------|--------|
| .598 | -3.951 | -21010 | -20560 | -20370 | -20900 | -23690 | -23690 | -24330 | -24990 | .14810 | .12970 |
| .598 | -1.980 | -20750 | -20340 | -20490 | -20510 | -23340 | -23340 | -23670 | -25450 | .15080 | .13090 |
| .598 | .016 | -20430 | -20910 | -20390 | -20340 | -23050 | -23050 | -23780 | -25040 | .15050 | .13060 |
| .598 | 1.996 | -21100 | -20720 | -20550 | -20770 | -23340 | -23340 | -24260 | -24550 | .14830 | .13010 |
| .598 | 4.002 | -20820 | -20870 | -20990 | -20750 | -23990 | -23990 | -25610 | -27310 | .15570 | .13280 |
| | GRADIENT | .00002 | -200050 | -200065 | .00002 | -200030 | -200030 | -200159 | -200189 | .00064 | .00027 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELV-1B = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = 25.000
 RUDDER = .000 RN/L = 5.000

RUN NO. 841/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-08 | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .900 | -3.951 | -24100 | -23320 | -23900 | -23590 | -33570 | -33570 | -34640 | -35100 | .23730 | .20880 |
| .900 | -1.954 | -23430 | -23870 | -23120 | -23320 | -33240 | -33240 | -34640 | -35740 | .23870 | .20770 |
| .999 | .024 | -23580 | -23660 | -23420 | -23560 | -32360 | -32360 | -33500 | -33600 | .23570 | .20750 |
| .900 | 2.007 | -22580 | -23180 | -23550 | -23530 | -31100 | -31100 | -31710 | -32580 | .23880 | .20860 |
| .899 | 4.017 | -23100 | -24040 | -23360 | -23740 | -29890 | -29890 | -30740 | -30840 | .23920 | .20860 |
| | GRADIENT | .00143 | .00038 | .00033 | .00026 | .00478 | .00478 | .00503 | .00587 | .00020 | .00003 |

RUN NO. 823/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-08 | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.201 | -3.946 | -29240 | -29070 | -29070 | -29210 | -30700 | -30700 | -31480 | -31570 | .41200 | .36020 |
| 1.200 | -1.954 | -29780 | -29900 | -30110 | -29740 | -30510 | -30510 | -32220 | -32110 | .41020 | .35960 |
| 1.201 | .000 | -29740 | -29270 | -29330 | -29490 | -30730 | -30730 | -31420 | -31450 | .41270 | .36150 |
| 1.200 | 1.997 | -29660 | -29680 | -29740 | -29680 | -30970 | -30970 | -31860 | -31860 | .41030 | .35980 |
| 1.201 | 3.997 | -29600 | -29770 | -29470 | -29580 | -30940 | -30940 | -31550 | -31790 | .41140 | .36070 |
| | GRADIENT | .00030 | .00060 | .00022 | .00034 | .00047 | .00047 | .00011 | .00010 | .00006 | .00006 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELV-1B = .000 AILRON = .000
 BDFLAP = .000 SPDBRK = 25.000
 RUDDER = .000 RN/L = 5.000

RUN NO. 848/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-08 | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .597 | 1.019 | -21720 | -21980 | -21480 | -21550 | -24730 | -24730 | -26170 | -27360 | .14940 | .12980 |
| .598 | 3.009 | -21720 | -21050 | -21720 | -21550 | -24750 | -24750 | -26350 | -28820 | .15300 | .13580 |
| .598 | 5.008 | -22290 | -21880 | -21600 | -21960 | -26520 | -26520 | -28130 | -30380 | .15040 | .13060 |
| .598 | 7.015 | -22110 | -21660 | -22610 | -22070 | -27050 | -27050 | -29730 | -31530 | .15180 | .13760 |
| .598 | 9.015 | -22490 | -22630 | -22300 | -22180 | -29250 | -29250 | -31740 | -33280 | .15290 | .13160 |
| | GRADIENT | .00000 | .00467 | .00012 | .00000 | .00010 | .00010 | .00090 | .00734 | .00181 | .00301 |

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(E2F0F0) (08 JUL 77)

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DATE 10 MAR 80

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AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELV-18 = 5.000 AILRON = .000
BDFLAP = .000 SPDBRK = 25.000
RUDDER = .000 RN/L = 5.000

RUN NO. 842/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-08 | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| .900 | 1.014 | -25460 | -25850 | -25550 | -26300 | -32800 | -32800 | -32800 | -33930 | 24230 | 21230 |
| .899 | 3.014 | -26160 | -25490 | -25850 | -26160 | -32210 | -32210 | -33030 | -32650 | 23930 | 20830 |
| .901 | 5.002 | -24950 | -23220 | -24730 | -25400 | -31370 | -31370 | -31690 | -31690 | 24460 | 21190 |
| .899 | 7.002 | -26610 | -25770 | -26420 | -26420 | -32450 | -32450 | -32690 | -33220 | 23690 | 20670 |
| .900 | 9.015 | -25660 | -25310 | -26280 | -26210 | -32200 | -32200 | -33080 | -32790 | 24140 | 21080 |
| | GRADIENT | -20350 | -20180 | -20150 | -20070 | -20295 | -20295 | -20115 | -200640 | -200150 | -200200 |

RUN NO. 824/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-08 | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 1.200 | 1.005 | -31400 | -31500 | -31500 | -31720 | -32370 | -32370 | -32800 | -33250 | 41180 | 36020 |
| 1.200 | 3.014 | -31660 | -31490 | -31670 | -31190 | -32510 | -32510 | -32550 | -33330 | 41030 | 35910 |
| 1.201 | 4.998 | -31860 | -31190 | -31190 | -31820 | -31960 | -31960 | -32470 | -32640 | 41140 | 36110 |
| 1.200 | 7.006 | -31500 | -31450 | -31490 | -31560 | -31950 | -31950 | -32230 | -33030 | 41190 | 36070 |
| 1.200 | 9.007 | -31020 | -31220 | -31160 | -31090 | -31640 | -31640 | -31630 | -32160 | 41130 | 35940 |
| | GRADIENT | -20115 | -20077 | -20077 | -20024 | -20102 | -20102 | -20083 | -200152 | -200010 | -200022 |

AMES 118-1-11 0A145A 01

(E2F0F1) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELV-18 = -5.000 AILRON = .000
BDFLAP = .000 SPDBRK = 25.000
RUDDER = .000 RN/L = 5.000

RUN NO. 849/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-08 | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .598 | -C.945 | -19750 | -19940 | -20250 | -19850 | -23170 | -23170 | -23740 | -24220 | 14780 | 12940 |
| .598 | -6.944 | -19670 | -19860 | -20290 | -20120 | -22820 | -22820 | -23200 | -23810 | 14720 | 13050 |
| .598 | -4.937 | -19990 | -20150 | -20030 | -20220 | -23020 | -23020 | -23330 | -24200 | 14670 | 12840 |
| .598 | -2.940 | -20570 | -20480 | -20480 | -20050 | -23110 | -23110 | -23510 | -24700 | 14670 | 12770 |
| .598 | -940 | -19830 | -20530 | -20030 | -19880 | -22500 | -22500 | -22880 | -24120 | 14720 | 12940 |
| | GRADIENT | .00040 | -20095 | .00000 | .00085 | .00130 | .00130 | .00113 | .00020 | .00013 | .00025 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

RUN NO. 843/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-OB | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|--------|--------|--------|--------|--------|---------|
| .901 | -8.960 | -20990 | -21480 | -20560 | -21670 | -30890 | -30890 | -31240 | -30890 | .24010 | .21140 |
| .901 | -6.948 | -22010 | -21610 | -21360 | -21440 | -31390 | -31390 | -31890 | -32330 | .23780 | .20830 |
| .900 | -4.952 | -21660 | -21400 | -21290 | -20590 | -31250 | -31250 | -31590 | -32610 | .23730 | .20820 |
| .901 | -2.951 | -20950 | -21700 | -21610 | -21950 | -31460 | -31460 | -32680 | -33350 | .23710 | .20850 |
| .899 | -.930 | -21930 | -21980 | -21880 | -22270 | -30340 | -30340 | -31040 | -32110 | .23990 | .20760 |
| | GRADIENT | -.00068 | -.00144 | -.00147 | -.00417 | .00227 | .00227 | .00138 | .00125 | .00065 | -.00015 |

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELV-1B = -5.000 AILRON = .000
BDFLAP = .000 SPDBRK = 25.000
RUDDER = .000 RN/L = 5.000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

RUN NO. 825/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELV-OB | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1.203 | -8.960 | -28790 | -28770 | -28620 | -28600 | -29570 | -29570 | -29410 | -29690 | .41200 | .36070 |
| 1.201 | -6.951 | -29100 | -28870 | -28790 | -28800 | -29890 | -29890 | -29620 | -30250 | .40900 | .35910 |
| 1.200 | -4.953 | -29530 | -29060 | -29410 | -29290 | -29570 | -29570 | -29600 | -30320 | .41080 | .36050 |
| 1.201 | -2.956 | -29190 | -29250 | -29310 | -29320 | -29820 | -29820 | -30340 | -30540 | .41070 | .36060 |
| 1.200 | -.946 | -29900 | -29730 | -29750 | -29680 | -30280 | -30280 | -30090 | -30740 | .41090 | .36030 |
| | GRADIENT | -.00093 | -.00167 | -.00085 | -.00097 | -.00177 | -.00177 | -.00122 | -.00105 | -.00007 | -.00005 |

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELVON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 850/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIL-1B | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| .597 | -3.984 | -20650 | -20960 | -20650 | -20740 | -22980 | -22980 | -22990 | -25000 | .15050 | .12940 |
| .598 | -1.980 | -20890 | -20320 | -20650 | -21010 | -22690 | -22690 | -23850 | -25460 | .15100 | .13290 |
| .598 | -.004 | -20510 | -20320 | -20750 | -20940 | -22780 | -22780 | -23990 | -25150 | .15150 | .13150 |
| .593 | 1.977 | -20610 | -20930 | -20880 | -20740 | -22980 | -22980 | -24110 | -25770 | .14960 | .13240 |
| .598 | 3.967 | -20740 | -20650 | -20550 | -20170 | -23230 | -23230 | -24270 | -25910 | .15010 | .13350 |
| | GRADIENT | -.00005 | .00003 | .00009 | .00071 | -.00035 | -.00035 | -.00143 | -.00107 | -.00011 | .00039 |

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
ELVON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

AMES 118-1-11 0A145A 01

(E2F0F2) (08 JUL 77)

REFERENCE DATA

| | | | | |
|-------|---|-----------|--------|------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP |
| LREF | = | 474.8100 | INCHES | YMRP |
| BREF | = | 936.6800 | INCHES | ZMRP |
| SCALE | = | .0500 | | |

| MACH | AIR-18 | RUN NO. | 832/ 0 | RN/L = | 4.96 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|------|----------|---------|--------|--------|--------|---------------------|--------|------|
| | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | |
| | -21880 | -22430 | -22770 | -22220 | -30360 | -30360 | -31260 | |
| | -3.978 | -22780 | -22810 | -22850 | -31460 | -31460 | -32640 | |
| | -1.996 | -23150 | -22810 | -23420 | -31780 | -31780 | -32710 | |
| | 0.015 | -23200 | -23110 | -23520 | -31780 | -31780 | -33260 | |
| | 1.978 | -24460 | -23950 | -24810 | -32370 | -32370 | -33260 | |
| | 3.956 | -25020 | -25170 | -24690 | -33040 | -33040 | -33620 | |
| | 00334 | -00314 | -00299 | -00348 | -00316 | -00316 | -00266 | |
| | GRADIENT | | | | | | | |

| | RUN NO. | 826/ 0 | RN/L = | 5.02 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|----------|---------|--------|--------|--------|---------------------|--------|--------|
| MACH | CP225 | CP238 | CP231 | CP234 | CP237 | CP240 | CP243 |
| A1L-1B | -29900 | -29780 | -29710 | -29580 | -30860 | -30860 | -30980 |
| | -3.974 | -29730 | -29370 | -29880 | -30350 | -30350 | -30760 |
| | -1.975 | -29500 | -29700 | -29700 | -31350 | -31350 | -31700 |
| | -0.920 | -29880 | -29970 | -29880 | -31000 | -31000 | -31520 |
| | 1.199 | -30190 | -30060 | -30160 | -31760 | -31760 | -32040 |
| | 1.978 | -30760 | -30860 | -30810 | -30098 | -00123 | -00145 |
| | 3.967 | -00132 | -00138 | -00098 | -00123 | -00123 | -00145 |
| GRADIENT | -00121 | -00132 | -00138 | -00098 | -00123 | -00123 | -00145 |

| | | |
|---------|-------|-------|
| CP2+6 | CP12 | CP13 |
| - 32+90 | 24290 | 20910 |
| - 32+90 | 23580 | 20650 |
| - 32+90 | 23960 | 20950 |
| - 32+90 | 23860 | 20950 |
| - 34+50 | 23800 | 21060 |
| - 00256 | 00035 | 00030 |

REFERENCE DATA

| | | | | |
|-------|---|-----------|--------|------|
| SREF | = | 2690.0000 | SQ.FT. | XMRP |
| LREF | = | 474.8100 | INCHES | YMRP |
| BREF | = | 936.6800 | INCHES | ZMRP |
| SCALE | = | .0500 | | |

[illegible]

AMES 118-1-11 0A145A 01

(E2F0F3) (08 JUL 77)

PARAMETRIC DATA

| | | | | | |
|--------|---|--------|--------|---|------|
| ALPHA | = | 5.000 | BETA | = | .000 |
| ELEVON | = | 5.000 | BDFLAP | = | .000 |
| SPOBRK | = | 25.000 | RUDDER | = | .000 |
| RN/L | = | 5.000 | | | |

| CP246 | CP12 | CP13 |
|----------|---------|--------|
| - .29110 | .15660 | .13300 |
| - .29410 | .15640 | .13470 |
| - .29810 | .15100 | .13050 |
| - .31230 | .14950 | .12870 |
| - .33000 | .15370 | .13590 |
| - .00465 | -.00021 | .00002 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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(E2F0F3) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = 5.000 BDFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPOBRK = 25.000 RUDDER = .000
 SCALE = .0500 RN/L =

RUN NO. 833/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIR-18 | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .901 | -4.008 | -24270 | -24050 | -23930 | -23500 | -30140 | -30140 | -30960 | -30010 | .23980 | .20780 |
| .899 | -2.014 | -24710 | -24370 | -23930 | -24660 | -30460 | -30460 | -31120 | -31700 | .24090 | .20910 |
| .899 | -.034 | -25310 | -25690 | -25400 | -25480 | -31050 | -31050 | -32160 | -32160 | .23920 | .21050 |
| .899 | 1.981 | -26560 | -26340 | -26250 | -25570 | -32230 | -32230 | -32660 | -32620 | .23850 | .20830 |
| .899 | 4.424 | -27000 | -27670 | -26560 | -26870 | -32860 | -32860 | -34220 | -34390 | .23900 | .21270 |
| | GRADIENT | -00350 | -00443 | -00361 | -00367 | -00346 | -00346 | -00390 | -00466 | -00019 | .00044 |

MACH

| MACH | AIR-18 | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.200 | -4.013 | -30880 | -30630 | -30830 | -30630 | -31200 | -31200 | -31880 | -32060 | .41220 | .36110 |
| 1.200 | -2.009 | -31260 | -31230 | -30970 | -31580 | -31380 | -31380 | -31880 | -33770 | .41100 | .36040 |
| 1.199 | -.034 | -31810 | -31700 | -31740 | -32040 | -32580 | -32580 | -32640 | -32740 | .41030 | .35750 |
| 1.200 | 1.981 | -31620 | -31170 | -31470 | -31820 | -32410 | -32410 | -32720 | -32890 | .40960 | .35870 |
| 1.200 | 4.424 | -31850 | -31870 | -31650 | -31840 | -32420 | -32420 | -33260 | -33120 | .41000 | .36030 |
| | GRADIENT | -00109 | -00116 | -00101 | -00124 | -00163 | -00163 | -00173 | -00059 | -00027 | -00014 |

AMES 118-1-11 OAI45A 01

(E2F0F4) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO ALPHA = 5.000 BETA = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO ELEVON = 5.000 BDFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPOBRK = 25.000 RUDDER = .000
 SCALE = .0500 RN/L =

RUN NO. 852/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIR-18 | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .600 | -4.564 | -19050 | -19280 | -19310 | -19140 | -22190 | -22190 | -22520 | -23180 | .15510 | .13470 |
| .598 | -2.377 | -19930 | -19850 | -19930 | -20020 | -22840 | -22840 | -22950 | -23640 | .14730 | .12950 |
| .598 | -.284 | -19740 | -19860 | -19860 | -19760 | -22550 | -22550 | -22910 | -24140 | .15270 | .13370 |
| .598 | 1.925 | -19940 | -20030 | -19630 | -19890 | -22910 | -22910 | -23390 | -24190 | .15090 | .13160 |
| .598 | 3.940 | -19890 | -19990 | -19870 | -19580 | -23130 | -23130 | -23390 | -24600 | .15060 | .12980 |
| | GRADIENT | -00080 | -00076 | -00039 | -00036 | -00092 | -00092 | -00103 | -00159 | -00026 | -00036 |

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = 5.000 BDFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L =

AMES 118-1-11 0A145A 01

(E2F0F4) (08 JUL 77)

REFERENCE DATA

| | | | | |
|-------|---|-----------|---------|------|
| SREF | = | 2690.0000 | SO. FT. | XMRP |
| LREF | = | 474.8100 | INCHES | YMRP |
| BREF | = | 936.6800 | INCHES | ZMRP |
| SCALE | = | .0500 | | |

| MACH | AIR-IB | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 |
|------|--------|--------|--------|---------|--------|--------|--------|--------|
| .902 | -4.564 | -21120 | -20900 | -21380 | -20870 | -29760 | -29760 | -30344 |
| .900 | -2.383 | -21730 | -21530 | -20930 | -20890 | -30900 | -30900 | -32080 |
| .900 | -2.89 | -21290 | -21500 | -21310 | -20970 | -30800 | -30800 | -32265 |
| .899 | 1.915 | -21870 | -21660 | -22020 | -21680 | -32300 | -32300 | -33480 |
| | 3.945 | -22090 | -22750 | -22550 | -23010 | -33730 | -33730 | -34033 |
| .899 | | -20298 | -20179 | -200160 | -00237 | -00438 | -00438 | -0041 |

| | RUN NO. | 828/ 0 | RN/L = | 5.01 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|----------|---------|--------|--------|--------|---------------------|--------|--------|
| MACH | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 |
| A1L-1B | -26270 | -26280 | -26370 | -26340 | -24650 | -24650 | -24820 |
| -4.575 | -26270 | -26280 | -26370 | -26340 | -24650 | -24650 | -24820 |
| -2.389 | -28100 | -28070 | -28400 | -28400 | -28680 | -28680 | -28460 |
| -294 | -29190 | -29020 | -28870 | -28890 | -29210 | -29210 | -29550 |
| 1.910 | -29050 | -28960 | -28960 | -28930 | -29830 | -29830 | -30270 |
| 3.934 | -28100 | -28110 | -28560 | -28410 | -29680 | -29680 | -30270 |
| GRADIENT | -00199 | -00200 | -00254 | -00221 | -00529 | -00529 | -00599 |

REFERENCE DATA

| | | | | |
|-------|---|-----------|---------|------|
| SREF | = | 2690.0000 | 50. FT. | XMRP |
| LREF | = | 474.8100 | INCHES | YMRP |
| BREF | = | 936.6800 | INCHES | ZMRP |
| SCALE | = | .0500 | | |

| MACH | AIL-OB | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|
| .597 | -3.991 | -.20600 | -.20840 | -.21010 | -.20720 | -.23530 | -.23530 | -.24150 |
| .598 | -1.982 | -.20630 | -.20920 | -.20950 | -.20630 | -.23220 | -.23220 | -.23830 |
| .598 | -.007 | -.20510 | -.20610 | -.20440 | -.20560 | -.23120 | -.23120 | -.24070 |
| .598 | 1.984 | -.20600 | -.20650 | -.20650 | -.20720 | -.23480 | -.23480 | -.24330 |
| .598 | 3.976 | -.20530 | -.20630 | -.20560 | -.20720 | -.23980 | -.23980 | -.25620 |
| | GRADIENT | .00009 | .00039 | .00059 | .00008 | .00058 | .00058 | .00173 |

AMES 118-1-11 0A145A 01

(E2F0F5) (08 JUL 77)

PARAMETRIC DATA

| | | | | | |
|--------|---|--------|--------|---|------|
| ALPHA | = | 5.000 | BETA | = | .000 |
| ELEVON | = | .000 | BDFLAP | = | .000 |
| SPDBRK | = | 25.000 | RUDDER | = | .000 |
| RN/L | = | 5.000 | | | |

| | | | |
|---------|---------|----------|----------|
| CP243 | CP246 | CP12 | CP13 |
| - 24150 | - 24760 | . 15140 | . 13170 |
| - 23830 | - 25040 | . 15300 | . 13220 |
| - 24070 | - 25300 | . 15010 | . 13040 |
| - 24330 | - 26060 | . 14880 | . 12800 |
| - 25170 | - 26320 | . 14730 | . 13190 |
| - 20173 | - 20309 | - .00062 | - .00019 |

OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

DATE 10 MAR 80

(E2F0F5) (08 JUL 77)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

RUN NO. 835/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | | | | | | | | |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MACH | AIL-08 | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
| .899 | -3.977 | -22740 | -23540 | -23130 | -22890 | -33700 | -33700 | -35020 | -34450 | .23810 | .20790 |
| .899 | -1.962 | -23300 | -23470 | -23740 | -24100 | -33350 | -33350 | -34780 | -34840 | .23830 | .20750 |
| .900 | .001 | -22850 | -23340 | -22470 | -23430 | -31840 | -31840 | -32420 | -32670 | .24070 | .21070 |
| .900 | 1.979 | -23660 | -23200 | -23410 | -23220 | -31050 | -31050 | -32190 | -33390 | .23920 | .20840 |
| .899 | 3.971 | -23520 | -24000 | -23800 | -23330 | -29920 | -29920 | -31740 | -31570 | .23910 | .20770 |
| | GRADIENT | .00097 | .00033 | .00051 | .00001 | .00497 | .00497 | .00461 | .00363 | .00015 | .00002 |

RUN NO. 829/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | | | | | | | | |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MACH | AIL-08 | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
| 1.200 | -3.986 | -29250 | -29330 | -29220 | -29330 | -30700 | -30700 | -30840 | -31950 | .40990 | .35950 |
| 1.200 | -1.987 | -29780 | -29510 | -29540 | -29410 | -31110 | -31110 | -30880 | -31900 | .40970 | .35800 |
| 1.201 | .012 | -29720 | -29470 | -29820 | -29570 | -31010 | -31010 | -31320 | -31960 | .40960 | .35890 |
| 1.199 | 1.979 | -29980 | -29520 | -29670 | -29560 | -31060 | -31060 | -31520 | -32170 | .41030 | .35930 |
| 1.201 | 3.971 | -29770 | -29570 | -29300 | -29570 | -30730 | -30730 | -31340 | -31410 | .41110 | .36070 |
| | GRADIENT | .00062 | .00025 | .00015 | .00032 | .00001 | .00001 | .00082 | .00041 | .00015 | .00019 |

AMES 118-1-11 OAI45A 01

(E2F0F6) (08 JUL 77)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

RUN NO. 854/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | | | | | | | | |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MACH | AIL-08 | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
| .597 | -4.008 | -22080 | -22010 | -22130 | -21770 | -24310 | -24310 | -25360 | -27760 | .15120 | .13330 |
| .598 | -2.004 | -21990 | -22110 | -21510 | -21600 | -25330 | -25330 | -26870 | -28420 | .15360 | .13160 |
| .598 | .006 | -21670 | -21760 | -21780 | -21690 | -25940 | -25940 | -2760 | -29680 | .15370 | .13530 |
| .597 | 1.998 | -21700 | -22010 | -22230 | -22040 | -27710 | -27710 | -29330 | -31750 | .15200 | .13170 |
| .598 | 3.993 | -22160 | -22640 | -21610 | -22280 | -28060 | -28060 | -31070 | -33070 | .15150 | .13960 |
| | GRADIENT | .00007 | .00058 | .00016 | .00073 | .00494 | .00494 | .00694 | .00697 | .00005 | .00063 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(E2F0F6) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

ALPHA =
ELEVON =
SPOBRK =
RN/L =

BETA =
BOFLAP =
RUDDER =

RUN NO. 836/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIL-08 | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| .900 | -4.003 | -25090 | -26160 | -25530 | -25960 | -32730 | -32730 | -34110 | -34500 | .24170 | .21000 |
| .900 | -1.999 | -26090 | -25340 | -25640 | -25980 | -32140 | -32140 | -33350 | -33720 | .23990 | .20950 |
| .899 | .001 | -25290 | -25360 | -25610 | -25130 | -31880 | -31880 | -32600 | -33000 | .24020 | .20810 |
| .899 | 1.988 | -26370 | -25860 | -26230 | -25820 | -32790 | -32790 | -33560 | -33250 | .23640 | .20480 |
| .900 | 4.005 | -25920 | -25600 | -25180 | -25750 | -31940 | -31940 | -32580 | -32450 | .24050 | .21370 |
| GRADIENT | | .00097 | .00030 | .00006 | .00029 | .00047 | .00047 | .00143 | .00229 | -.00029 | .00014 |

RUN NO. 830/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIL-CB | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| 1.200 | -4.017 | -32000 | -31770 | -31770 | -31400 | -32160 | -32160 | -32700 | -33110 | .41270 | .36070 |
| 1.201 | -2.004 | -31680 | -31730 | -31740 | -31770 | -32710 | -32710 | -32670 | -33180 | .41000 | .35850 |
| 1.201 | -.015 | -31500 | -31460 | -31520 | -31640 | -31980 | -31980 | -32450 | -32780 | .41250 | .36090 |
| 1.201 | 1.993 | -31680 | -31480 | -31720 | -31250 | -31900 | -31900 | -32080 | -32350 | .41220 | .36130 |
| 1.200 | 3.999 | -31130 | -31370 | -30970 | -30870 | -31370 | -31370 | -31610 | -31890 | .41050 | .36050 |
| GRADIENT | | .00087 | .00052 | .00081 | .00079 | .00119 | .00119 | .00138 | .00163 | -.00011 | .00012 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

ALPHA =
ELEVON =
SPOBRK =
RN/L =

BETA =
BOFLAP =
RUDDER =

RUN NO. 855/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIL-08 | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| .599 | -3.998 | -19590 | -19380 | -19780 | -19760 | -23150 | -23150 | -23620 | -24120 | .15280 | .13180 |
| .598 | -2.024 | -19720 | -20230 | -20110 | -20250 | -23080 | -23080 | -23240 | -23980 | .15000 | .13160 |
| .598 | -.005 | -19870 | -19800 | -19800 | -19770 | -22720 | -22720 | -23150 | -24120 | .14900 | .13120 |
| .598 | 2.010 | -19700 | -19680 | -20130 | -19460 | -22570 | -22570 | -23280 | -23990 | .14980 | .13200 |
| .598 | 4.006 | -19600 | -20170 | -20240 | -20030 | -22010 | -22010 | -22670 | -24330 | .15090 | .13340 |
| GRADIENT | | .00000 | .00051 | .00047 | .00013 | .00139 | .00139 | .00093 | .00021 | -.00020 | .00018 |

AMES 118-1-11 OAI45A 01

(E2F0F7) (08 JUL 77)

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1963

AMES 118-1-11 OAI45A 01

(E2F0F7) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 837/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIL-08 | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .899 | -4.009 | -21880 | -21600 | -21770 | -21480 | -31200 | -31200 | -31830 | -32490 | .23610 | .20820 |
| .900 | -1.990 | -22000 | -21280 | -21710 | -21570 | -32030 | -32030 | -32350 | -32540 | .23780 | .20580 |
| .901 | .005 | -21480 | -20930 | -21100 | -21450 | -31400 | -31400 | -31980 | -32760 | .23720 | .20880 |
| .901 | 2.001 | -21490 | -21290 | -20770 | -21410 | -30920 | -30920 | -32680 | -32230 | .23880 | .21140 |
| .900 | 4.001 | -21210 | -21370 | -21310 | -21480 | -31050 | -31050 | -31740 | -31150 | .23770 | .20630 |
| | GRADIENT | .00092 | .00023 | .00093 | .00008 | .00070 | .00070 | .00008 | .00149 | .00021 | .00009 |

ALPHA = 5.000
 ELEVON = -5.000
 SPOBRK = 25.000
 RN/L = 5.000

BETA = .000
 BOFLAP = .000
 RUDDER = .000

PARAMETRIC DATA

RUN NO. 831/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIL-08 | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 1.201 | -3.998 | -29280 | -29170 | -29010 | -29190 | -29710 | -29710 | -29910 | -30660 | .41230 | .36170 |
| 1.200 | -1.999 | -29510 | -29040 | -29510 | -29270 | -29740 | -29740 | -29870 | -30300 | .41030 | .36000 |
| 1.201 | .005 | -29640 | -29220 | -29100 | -29160 | -29620 | -29620 | -29970 | -30120 | .41020 | .36060 |
| 1.201 | 1.984 | -29720 | -29520 | -29600 | -29580 | -30030 | -30030 | -30260 | -30680 | .41160 | .36130 |
| 1.200 | 4.011 | -30120 | -29980 | -29880 | -29790 | -30400 | -30400 | -30310 | -31110 | .41070 | .36060 |
| | GRADIENT | .00095 | .00105 | .00092 | .00076 | .00084 | .00084 | .00059 | .00064 | -.00010 | -.00005 |

OAIW5 TABULATED FORCE DATA

DATE 10 MAR 80

(E2F0F8) (06 MAR 80)

AMES 118-1-11 OAIW5A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 18.700 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 3.000

RUN NO. 320/ 0 RN/L = 2.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .399 | -3.984 | -.32010 | -.21980 | -.10000 |
| .399 | -2.924 | -.32690 | -.18080 | -.06600 |
| .400 | -1.851 | -.31970 | -.15020 | -.01920 |
| .401 | -1.328 | -.31940 | -.13500 | -.00120 |
| .400 | -.807 | -.32300 | -.11500 | -.01710 |
| .400 | -.284 | -.32270 | -.09620 | -.03660 |
| .400 | .238 | -.32750 | -.07720 | -.05270 |
| .400 | .743 | -.32150 | -.05830 | -.07300 |
| .400 | 1.248 | -.32020 | -.04560 | -.09100 |
| .400 | 1.746 | -.32420 | -.02660 | -.10630 |
| .400 | 2.262 | -.31800 | -.00910 | -.12590 |
| .401 | 3.289 | -.31440 | -.02580 | -.16320 |
| .400 | 4.329 | -.31650 | -.05990 | -.19830 |
| .400 | GRADIENT | .00076 | -.03376 | .03603 |

RUN NO. 321/ 0 RN/L = 2.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .594 | -3.991 | -.35900 | -.24870 | -.07210 |
| .594 | -2.909 | -.36130 | -.21930 | -.02990 |
| .595 | -1.859 | -.37220 | -.17860 | -.00190 |
| .599 | -1.336 | -.36730 | -.16200 | -.02550 |
| .601 | -.813 | -.36350 | -.14900 | -.04870 |
| .598 | -.290 | -.36380 | -.12670 | -.06410 |
| .600 | .234 | -.35800 | -.11500 | -.08700 |
| .598 | .741 | -.36440 | -.09880 | -.10120 |
| .599 | 1.247 | -.36460 | -.07910 | -.11740 |
| .600 | 1.747 | -.35450 | -.06130 | -.13930 |
| .595 | 2.263 | -.36210 | -.04290 | -.14990 |
| .600 | 3.294 | -.34650 | -.00860 | -.19190 |
| .600 | 4.337 | -.34830 | -.02570 | -.22710 |
| .600 | GRADIENT | .00185 | -.03319 | .03587 |

(E2F0F8) (06 MAR 80)

OAI145 TABULATED FORCE DATA
ANES 11B-1-11 OAI145A 01

DATE 10 MAR 80

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 18.700 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 3.000

RUN NO. 319/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .799 | -4.008 | -.40610 | .32590 | -.00020 |
| .797 | -2.926 | -.40500 | .29210 | .03920 |
| .797 | -1.876 | -.41720 | .25110 | .07170 |
| .798 | -1.351 | -.42390 | .23650 | .08820 |
| .800 | -.827 | -.41070 | .22280 | .11380 |
| .799 | -.301 | -.41660 | .20000 | .12940 |
| .779 | .178 | -.42000 | .15750 | .12050 |
| .799 | .734 | -.42340 | .16410 | .16330 |
| .798 | 1.248 | -.41510 | .15020 | .18450 |
| .799 | 1.748 | -.41460 | .13350 | .20170 |
| .799 | 2.266 | -.40650 | .11770 | .22260 |
| .797 | 3.306 | -.40750 | .07780 | .25720 |
| .799 | 4.350 | -.40130 | .04680 | .29460 |
| | GRADIENT | .00057 | -.03356 | .03537 |

OAI145 TABULATED FORCE DATA

DATE 10 MAR 80

(E2F0F9) (16 JUL 77)

AMES 118-1-11 OAI145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA =
 AILRON =
 SPDBRK =
 RN/L =
 18.700 ELEVON = .000
 .000 BDFLAP = .000
 25.000 RUDDER = .000
 5.000

RUN NO. 334/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .397 | -3.976 | -2.3310 | -2.3280 | -2.3240 | -2.3350 | -3.0300 | -3.0300 | -3.2880 | -3.5050 | .21410 | -.09560 |
| .397 | -2.900 | -2.4030 | -2.3890 | -2.3920 | -2.4200 | -3.0140 | -3.0140 | -3.2460 | -3.5220 | .17490 | -.05470 |
| .397 | -1.854 | -2.4290 | -2.3420 | -2.3420 | -2.4150 | -3.0230 | -3.0230 | -3.3290 | -3.5640 | .13780 | -.01530 |
| .397 | -1.330 | -2.4190 | -2.4010 | -2.4150 | -2.3670 | -2.9980 | -2.9980 | -3.2910 | -3.4800 | .12520 | .00730 |
| .397 | -.810 | -2.4840 | -2.4010 | -2.3940 | -2.3660 | -3.0590 | -3.0590 | -3.3280 | -3.5750 | .10470 | .01890 |
| .397 | -.286 | -2.4430 | -2.4390 | -2.4460 | -2.4780 | -3.0610 | -3.0610 | -3.2980 | -3.5360 | .09110 | .03340 |
| .397 | .225 | -2.4670 | -2.3800 | -2.4500 | -2.4110 | -3.0490 | -3.0490 | -3.3520 | -3.5140 | .07310 | .04790 |
| .398 | .743 | -2.3940 | -2.4110 | -2.3800 | -2.3800 | -2.9990 | -2.9990 | -3.3080 | -3.4730 | .05680 | .06700 |
| .397 | 1.254 | -2.3940 | -2.4210 | -2.3760 | -2.4280 | -3.0280 | -3.0280 | -3.2580 | -3.4820 | .04020 | .08240 |
| .398 | 1.753 | -2.3660 | -2.3800 | -2.3550 | -2.3550 | -2.9920 | -2.9920 | -3.2320 | -3.3760 | .02610 | .10360 |
| .398 | 2.270 | -2.2690 | -2.3830 | -2.3720 | -2.3650 | -3.0510 | -3.0510 | -3.2700 | -3.4250 | .00600 | .11600 |
| .398 | 3.301 | -2.2830 | -2.3210 | -2.3040 | -2.3380 | -2.9930 | -2.9930 | -3.2060 | -3.3830 | -.02930 | .15730 |
| .397 | 4.340 | -2.3800 | -2.3550 | -2.3660 | -2.3210 | -3.0140 | -3.0140 | -3.2650 | -3.4060 | -.06530 | .19210 |
| | GRADIENT | .00070 | .00005 | .00025 | .00060 | .00021 | .00021 | .00071 | .00203 | -.03304 | .03378 |

RUN NO. 403/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .598 | -4.020 | -2.6350 | -2.6190 | -2.6210 | -2.6420 | -3.4260 | -3.4260 | -3.5500 | -3.6510 | .24580 | -.06970 |
| .600 | -2.972 | -2.6310 | -2.6220 | -2.6080 | -2.6050 | -3.4250 | -3.4250 | -3.5470 | -3.5910 | .21720 | -.02750 |
| .600 | -1.942 | -2.6760 | -2.6720 | -2.6720 | -2.6600 | -3.4410 | -3.4410 | -3.5390 | -3.6130 | .18580 | .00990 |
| .602 | -1.423 | -2.6550 | -2.5700 | -2.5930 | -2.6110 | -3.3630 | -3.3630 | -3.4860 | -3.6150 | .17010 | .03400 |
| .601 | -.908 | -2.6580 | -2.6020 | -2.5720 | -2.6280 | -3.4130 | -3.4130 | -3.4920 | -3.5180 | .15350 | .05300 |
| .601 | -.387 | -2.7270 | -2.6480 | -2.7480 | -2.7660 | -3.4460 | -3.4460 | -3.5620 | -3.6890 | .13560 | .06570 |
| .600 | .118 | -2.6900 | -2.6870 | -2.7320 | -2.7670 | -3.4680 | -3.4680 | -3.6200 | -3.7200 | .11230 | .08050 |
| .600 | .646 | -2.7160 | -2.6810 | -2.7530 | -2.7390 | -3.4860 | -3.4860 | -3.6020 | -3.6530 | .09720 | .09930 |
| .601 | 1.166 | -2.6650 | -2.6000 | -2.6840 | -2.6510 | -3.4420 | -3.4420 | -3.5040 | -3.6800 | .08300 | .12080 |
| .601 | 1.672 | -2.5950 | -2.5880 | -2.6300 | -2.6090 | -3.3760 | -3.3760 | -3.4550 | -3.5750 | .07110 | .14120 |
| .601 | 2.193 | -2.5940 | -2.4590 | -2.5990 | -2.5750 | -3.3450 | -3.3450 | -3.4630 | -3.5810 | .04860 | .16140 |
| .601 | 3.232 | -2.5910 | -2.5220 | -2.5940 | -2.5750 | -3.3640 | -3.3640 | -3.4840 | -3.5790 | .01460 | .19020 |
| .601 | 4.269 | -2.5400 | -2.5560 | -2.5280 | -2.5070 | -3.2980 | -3.2980 | -3.4370 | -3.5250 | -.01070 | .22680 |
| | GRADIENT | .00112 | .00139 | .00058 | .00118 | .00122 | .00122 | .00120 | .00077 | -.03190 | .03549 |

OAI45 TABULATED FORCE DATA

DATE 10 MAR 80

(E2F0F9) (16 JUL 77)

AMES 118-1-11 OAI45A 01

PARAMETRIC DATA

ALPHA = 18.700 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

REFERENCE DATA

SREF = 2650.000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

RUN NO. 407/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| .800 | -4.067 | -.28530 | -.28220 | -.28770 | -.28770 | -.40710 | -.40710 | -.41880 | -.42060 | .32560 | .00150 |
| .798 | -3.011 | -.29140 | -.28830 | -.29400 | -.29470 | -.41860 | -.41860 | -.42650 | -.43170 | .28700 | .03460 |
| .800 | -1.972 | -.29840 | -.28970 | -.29620 | -.29570 | -.42020 | -.42020 | -.42300 | -.43070 | .25700 | .07280 |
| .800 | -1.450 | -.29560 | -.29250 | -.29530 | -.29340 | -.41750 | -.41750 | -.42360 | -.43380 | .24380 | .09460 |
| .799 | -.929 | -.29920 | -.29680 | -.29740 | -.29150 | -.41990 | -.41990 | -.42690 | -.43940 | .22430 | .11240 |
| .800 | -.400 | -.29060 | -.29120 | -.29250 | -.29270 | -.42310 | -.42310 | -.42070 | -.43030 | .20560 | .12910 |
| .799 | .099 | -.29350 | -.29780 | -.29570 | -.29500 | -.42440 | -.42440 | -.43070 | -.44140 | .19040 | .14550 |
| .799 | .639 | -.29790 | -.30010 | -.29670 | -.29530 | -.42630 | -.42630 | -.43220 | -.45130 | .16760 | .16370 |
| .799 | 1.161 | -.29410 | -.28930 | -.29410 | -.29620 | -.42580 | -.42580 | -.43110 | -.44170 | .15080 | .18070 |
| .901 | 1.669 | -.28470 | -.28670 | -.28210 | -.28670 | -.41600 | -.41600 | -.42430 | -.43920 | .14080 | .20370 |
| .799 | 2.197 | -.28630 | -.28720 | -.28820 | -.29070 | -.42110 | -.42110 | -.43000 | -.43810 | .11880 | .21700 |
| .800 | 3.246 | -.27700 | -.28440 | -.27720 | -.28790 | -.40710 | -.40710 | -.42520 | -.43890 | .09250 | .25670 |
| .799 | 4.294 | -.28790 | -.28320 | -.27990 | -.28880 | -.40390 | -.40390 | -.41260 | -.43180 | .05860 | .28970 |
| | GRADIENT | .00110 | .00036 | .00175 | .00044 | .00059 | .00059 | .00006 | -.00150 | -.03206 | .03474 |

0A145 TABULATED FORCE DATA

DATE 10 MAR 80

(EP000) (18 JUL 77)

AMES 118-1-11 0A145A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000
 AILRON = .000
 SPOBRK = 25.000
 RUDDER = 9.000
 ELEVON = .000
 BDELAP = .000

RUN NO. 335/ 0 RN/L = 6.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| .597 | -4.024 | -26060 | -25850 | -26110 | -25770 | -35030 | -35030 | -36310 | -37490 | .25010 | -.06290 |
| .597 | -2.985 | -25540 | -25590 | -25520 | -25710 | -35460 | -35460 | -36470 | -37020 | .21540 | -.02460 |
| .597 | -1.943 | -26590 | -26760 | -26250 | -27220 | -35470 | -35470 | -36320 | -37990 | .17910 | .01310 |
| .598 | -1.420 | -26200 | -26770 | -26320 | -26380 | -35630 | -35630 | -36200 | -37300 | .16440 | .03330 |
| .597 | -.899 | -26570 | -26440 | -26370 | -26640 | -36120 | -36120 | -37250 | -37720 | .14580 | .05030 |
| .597 | -.373 | -26860 | -26470 | -26060 | -26790 | -35800 | -35800 | -36690 | -37680 | .13040 | .07140 |
| .596 | .164 | -28510 | -28430 | -28460 | -28720 | -37460 | -37460 | -38960 | -39820 | .10780 | .08330 |
| .597 | .675 | -27200 | -26690 | -26860 | -27210 | -36490 | -36490 | -37500 | -38940 | .09300 | .10070 |
| .597 | 1.197 | -26340 | -26190 | -26610 | -26370 | -35790 | -35790 | -37030 | -38090 | .07870 | .12010 |
| .597 | 1.709 | -26550 | -26010 | -26020 | -26060 | -35980 | -35980 | -37440 | -38590 | .06000 | .13220 |
| .597 | 2.238 | -25910 | -26030 | -25840 | -26010 | -36140 | -36140 | -36960 | -38400 | .04430 | .14730 |
| .598 | 3.284 | -25190 | -24940 | -25240 | -25430 | -34630 | -34630 | -36270 | -36740 | .00980 | .18920 |
| .597 | 4.331 | -25640 | -25330 | -25020 | -24970 | -34720 | -34720 | -35960 | -37360 | -.02770 | .22270 |
| GRADIENT | | .00053 | .00099 | .00085 | .00103 | .00027 | .00027 | .00020 | -.00036 | -.03299 | .03365 |

RUN NO. 340/ 0 RN/L = 7.95 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | C.228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| .799 | -4.156 | -27750 | -27680 | -28140 | -28210 | -42570 | -42570 | -43540 | -44430 | .32650 | .00800 |
| .798 | -3.091 | -28330 | -28430 | -28800 | -29220 | -43740 | -43740 | -43810 | -44790 | .28450 | .04100 |
| .798 | -2.033 | -29070 | -28600 | -29260 | -29030 | -43480 | -43480 | -45320 | -45760 | .25890 | .08070 |
| .799 | -1.500 | -29390 | -28710 | -29340 | -29020 | -43890 | -43890 | -45020 | -45690 | .24140 | .09760 |
| .798 | -.963 | -29100 | -29020 | -29510 | -29260 | -44160 | -44160 | -45000 | -46500 | .22180 | .11770 |
| .799 | -.427 | -29710 | -28220 | -29600 | -29530 | -44350 | -44350 | -45620 | -46020 | .20310 | .13530 |
| .800 | .105 | -28420 | -28450 | -29320 | -29070 | -44040 | -44040 | -45160 | -45880 | .19220 | .15590 |
| .800 | .639 | -28480 | -28870 | -29110 | -29030 | -43050 | -43050 | -45340 | -45330 | .17610 | .17800 |
| .799 | 1.166 | -28420 | -28730 | -28860 | -28640 | -44010 | -44010 | -44650 | -46690 | .15620 | .19020 |
| .799 | 1.688 | -28750 | -28480 | -28290 | -28660 | -43800 | -43800 | -45040 | -45820 | .13690 | .21000 |
| .799 | 2.226 | -28370 | -28630 | -28550 | -28390 | -43830 | -43830 | -45360 | -46520 | .11810 | .22630 |
| .799 | 3.297 | -28370 | -28630 | -28030 | -28230 | -44410 | -44410 | -45800 | -46230 | .08430 | .25620 |
| .798 | 4.361 | -28070 | -27890 | -28330 | -28230 | -43570 | -43570 | -45070 | -46860 | .05180 | .29520 |
| GRADIENT | | .00033 | .00028 | .00072 | .00044 | -.00083 | -.00083 | -.00169 | -.00225 | -.03204 | .03399 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(E2F001) (05 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETA = 2.000
AILRON = .000
SPOBRK = 25.000
RN/L = 3.000
ELEVON = .000
BDFLAP = .000
RUDDER = .000

RUN NO. 858/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .400 | -4.999 | -.19490 | -.08230 | -.02910 |
| .398 | -.037 | -.18380 | .03500 | .09070 |
| .398 | 2.518 | -.20330 | .06510 | .13840 |
| .398 | 5.160 | -.22030 | .09540 | .16960 |
| .399 | 8.197 | -.24240 | .11010 | .18690 |
| .399 | 10.211 | -.24540 | .11530 | .19800 |
| .399 | 12.195 | -.26180 | .10420 | .19270 |
| .399 | 15.219 | -.30890 | .07860 | .17360 |
| .399 | 17.204 | -.29830 | .04570 | .15680 |
| .397 | 19.242 | -.31060 | .00730 | .12460 |
| | GRADIENT | -.00066 | .02016 | .02254 |

RUN NO. 859/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .598 | -5.021 | -.22000 | -.06800 | -.01510 |
| .599 | -.038 | -.20670 | .04130 | .10080 |
| .598 | 2.516 | -.22010 | .07950 | .15230 |
| .596 | 5.140 | -.23530 | .10730 | .18250 |
| .595 | 8.196 | -.25260 | .12570 | .19740 |
| .595 | 10.185 | -.26320 | .12620 | .20610 |
| .595 | 12.238 | -.27650 | .12010 | .20160 |
| .595 | 15.222 | -.32240 | .09520 | .19240 |
| .597 | 17.248 | -.34670 | .06740 | .17850 |
| .597 | 19.166 | -.38870 | .03400 | .14690 |
| | GRADIENT | -.00525 | .01496 | .02016 |

RUN NO. 860/ 0 RN/L = 2.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .801 | -4.994 | -.24820 | -.00260 | .04480 |
| .801 | -.047 | -.23780 | .08840 | .14460 |
| .800 | 2.516 | -.24450 | .12330 | .19160 |
| .797 | 5.146 | -.24960 | .15000 | .22100 |
| .796 | 8.222 | -.26990 | .16620 | .23770 |
| .796 | 10.255 | -.31960 | .17100 | .24360 |
| .799 | 12.248 | -.34150 | .17420 | .25160 |
| .799 | 15.268 | -.40410 | .15900 | .24940 |
| .796 | 17.242 | -.44740 | .13360 | .23160 |
| .796 | 19.174 | -.45750 | .11050 | .21270 |
| | GRADIENT | .00071 | .01698 | .01963 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO BETA = 2.000 ELEVON = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BDFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDBRK = 25.000 RUDDER = .000
 SCALE = .0500 RN/L = 7.99

RUN NO. 861/ 0 RN/L = 7.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .797 | -5.094 | -.23980 | -.01520 | .05370 |
| .799 | -.042 | -.23160 | .07790 | .15470 |
| .798 | 2.537 | -.24210 | .11020 | .18960 |
| .799 | 5.147 | -.25060 | .13070 | .22150 |
| .797 | 8.350 | -.27850 | .15960 | .25100 |
| .800 | 10.392 | -.31270 | .16430 | .25380 |
| .797 | 12.410 | -.34780 | .16870 | .25850 |
| .798 | 15.416 | -.41560 | .15460 | .24760 |
| .799 | 17.406 | -.45710 | .13830 | .23630 |
| .799 | 19.369 | -.46660 | .12670 | .23050 |
| | GRADIENT | -.00407 | .01252 | .01353 |

AMES 118-1-11 OAI45A 01(-MPS NOZ)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO BETA = .000 ELEVON = .000
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO AILRON = .000 BDFLAP = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDBRK = 25.000 RUDDER = .000
 SCALE = .0500 RN/L = 5.000

RUN NO. 918/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .597 | -5.206 | -.20740 | -.20740 | -.21360 | -.21190 | -.21720 | -.21720 | -.21830 | -.23060 | -.04070 | -.04160 |
| .597 | -2.18 | -.20920 | -.20950 | -.20560 | -.20970 | -.21000 | -.21000 | -.21710 | -.21660 | .07670 | .06230 |
| .598 | 2.326 | -.20490 | -.20490 | -.20490 | -.20420 | -.21580 | -.21580 | -.22100 | -.22690 | .12410 | .10260 |
| .598 | 4.802 | -.21120 | -.20670 | -.20960 | -.21120 | -.22810 | -.22810 | -.23910 | -.25210 | .14910 | .13000 |
| .597 | 7.882 | -.21060 | -.21090 | -.20850 | -.21370 | -.24840 | -.24840 | -.26960 | -.28400 | .17100 | .14800 |
| .598 | 9.946 | -.20670 | -.20290 | -.20290 | -.20340 | -.24940 | -.24940 | -.27240 | -.30060 | .18290 | .15230 |
| .598 | 11.972 | -.21240 | -.21670 | -.21290 | -.21720 | -.27100 | -.27100 | -.29730 | -.31990 | .18010 | .14440 |
| .598 | 15.007 | -.23080 | -.23480 | -.23530 | -.32430 | -.32430 | -.32430 | -.33820 | -.35060 | .15930 | .12250 |
| .597 | 16.975 | -.25150 | -.25100 | -.24750 | -.24700 | -.34880 | -.34880 | -.36300 | -.36460 | .13890 | .10330 |
| .598 | 18.950 | -.27110 | -.27650 | -.26780 | -.27530 | -.36930 | -.36930 | -.39940 | -.40920 | .11040 | .07510 |
| | GRADIENT | -.00039 | .00056 | -.00059 | -.00029 | -.00360 | -.00360 | -.00437 | -.00706 | .01444 | .01350 |

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AMES 118-1-11 OAI45A 01(-MPS NOZ)

(E2F0G5) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPOBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 915/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .902 | -5.238 | -24750 | -24880 | -24780 | -25220 | -29080 | -29080 | -29100 | -28830 | .08350 | .08440 |
| .901 | -2.228 | -24710 | -24300 | -24200 | -24340 | -28070 | -28070 | -29080 | -29430 | .17440 | .15460 |
| .900 | 2.357 | -23590 | -23740 | -23660 | -23570 | -30090 | -30090 | -31530 | -31710 | .20790 | .18390 |
| .898 | 4.858 | -23700 | -24080 | -23420 | -24330 | -32290 | -32290 | -33380 | -32840 | .23730 | .20640 |
| .903 | 7.965 | -24270 | -24300 | -24440 | -24370 | -34300 | -34300 | -34270 | -34470 | .26770 | .23120 |
| .899 | 9.992 | -26080 | -26400 | -25540 | -24980 | -35940 | -35940 | -37020 | -36890 | .26890 | .22940 |
| .902 | 12.027 | -26160 | -25670 | -26540 | -26540 | -38290 | -38290 | -37550 | -38300 | .27810 | .23370 |
| .902 | 15.072 | -29880 | -29080 | -29710 | -29440 | -42990 | -42990 | -44490 | -43010 | .27480 | .22770 |
| .901 | 17.065 | -31650 | -32060 | -31770 | -31990 | -45780 | -45780 | -46890 | -46320 | .26480 | .22060 |
| .900 | 18.999 | -32270 | -33120 | -33030 | -33120 | -47070 | -47070 | -47220 | -47420 | .24750 | .20260 |
| GRADIENT | | .00200 | .00044 | .00154 | .00004 | .00829 | .00829 | .00846 | .00672 | .01237 | .01019 |

RUN NO. 914/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.199 | -5.247 | -27410 | -27520 | -27490 | -27470 | -27040 | -27040 | -26540 | -28440 | .33140 | .34310 |
| 1.199 | -2.17 | -26740 | -26880 | -26810 | -26740 | -26910 | -26910 | -27590 | -27670 | .37870 | .35120 |
| 1.201 | 2.366 | -27840 | -27720 | -27740 | -27580 | -28670 | -28670 | -29270 | -29930 | .39830 | .35530 |
| 1.200 | 4.911 | -29410 | -29440 | -29380 | -29550 | -31280 | -31280 | -31820 | -32200 | .41110 | .36010 |
| 1.198 | 7.997 | -30860 | -31340 | -31170 | -31340 | -32750 | -32750 | -33060 | -33180 | .42530 | .36630 |
| 1.199 | 10.040 | -31200 | -31310 | -31360 | -31300 | -33280 | -33280 | -33980 | -33670 | .43470 | .37130 |
| 1.200 | 12.069 | -31420 | -30820 | -30660 | -31250 | -33640 | -33640 | -34110 | -34010 | .43690 | .37030 |
| 1.200 | 15.077 | -32500 | -32400 | -32480 | -32330 | -33960 | -33960 | -34570 | -34380 | .43820 | .36820 |
| 1.199 | 17.062 | -34080 | -33880 | -34080 | -34170 | -35310 | -35310 | -35580 | -35510 | .43490 | .36640 |
| 1.197 | 19.033 | -34660 | -34760 | -34750 | -34590 | -35790 | -35790 | -36300 | -36500 | .43060 | .36350 |
| GRADIENT | | .00520 | .00499 | .00501 | .00547 | .00852 | .00852 | .00824 | .00883 | .00632 | .00174 |

RUN NO. 911/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.405 | -5.238 | -26780 | -26780 | -26750 | -26700 | -27470 | -27470 | -27950 | -28130 | .39550 | .42870 |
| 1.405 | -2.30 | -28050 | -27860 | -27870 | -27900 | -28570 | -28570 | -29520 | -29020 | .43840 | .43870 |
| 1.402 | 2.329 | -28660 | -28880 | -28930 | -28810 | -29640 | -29640 | -30190 | -30390 | .45640 | .44850 |
| 1.400 | 4.884 | -29330 | -29370 | -29110 | -29190 | -30290 | -30290 | -31230 | -30800 | .47500 | .44540 |
| 1.401 | 7.961 | -30310 | -30590 | -30420 | -30570 | -31250 | -31250 | -31780 | -31670 | .48500 | .45150 |
| 1.401 | 10.007 | -31040 | -31170 | -31020 | -31170 | -31510 | -31510 | -31780 | -32040 | .49480 | .46340 |
| 1.402 | 12.032 | -32090 | -32240 | -32020 | -32200 | -32380 | -32380 | -32540 | -32700 | .49640 | .45190 |
| 1.403 | 15.032 | -33220 | -33100 | -32910 | -32840 | -32920 | -32920 | -33090 | -33560 | .49810 | .45240 |
| 1.390 | 17.055 | -35220 | -35000 | -35210 | -35150 | -33790 | -33790 | -34290 | -34150 | .49570 | .45260 |
| 1.382 | 19.035 | -36740 | -36420 | -36450 | -36720 | -34300 | -34300 | -34520 | -34650 | .49330 | .44540 |
| GRADIENT | | .00250 | .00295 | .00243 | .00252 | .00336 | .00336 | .00334 | .00348 | .00716 | .00131 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1973

AMES 118-1-11 OAI45A 01(-MPS NOZ)

(E2F006) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000
 AILRON = .000
 SPOBRK = .000
 RN/L = .000
 ELEVON = .000
 BDFLAP = .000
 RUDDER = .000

RUN NO. 917/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .597 | -6.056 | -20990 | -21210 | -21420 | -21040 | -23050 | -23050 | -23730 | -25310 | .29650 | -.01510 |
| .598 | -1.938 | -20600 | -20320 | -20390 | -20790 | -22740 | -22740 | -23840 | -25200 | .20170 | .08270 |
| .598 | -.899 | -20160 | -20750 | -20650 | -20420 | -22650 | -22650 | -23910 | -25130 | .17410 | .10900 |
| .598 | .086 | -20490 | -20160 | -20490 | -20470 | -23020 | -23020 | -23860 | -25150 | .15370 | .12930 |
| .598 | .633 | -20710 | -20520 | -20780 | -20760 | -23030 | -23030 | -23920 | -25560 | .14260 | .14470 |
| .597 | 1.116 | -20830 | -20550 | -20670 | -20720 | -23080 | -23080 | -23900 | -25310 | .12700 | .15490 |
| .598 | 2.173 | -20700 | -20650 | -20440 | -20750 | -23490 | -23490 | -23750 | -25460 | .10530 | .18040 |
| .597 | 3.200 | -20790 | -21170 | -21290 | -21550 | -23200 | -23200 | -24940 | -25480 | .07370 | .20680 |
| .598 | 4.238 | -21310 | -21170 | -20480 | -21190 | -23220 | -23220 | -24110 | -25500 | .05370 | .23290 |
| .598 | 6.299 | -21500 | -22060 | -21470 | -21950 | -23150 | -23150 | -24370 | -25540 | .00530 | .28440 |
| | GRADIENT | -.00124 | -.00137 | -.00049 | -.00130 | -.00104 | -.00104 | -.00097 | -.00062 | -.02411 | .02420 |

RUN NO. 916/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| .903 | -6.113 | -23760 | -23590 | -23710 | -24220 | -31430 | -31430 | -31990 | -33420 | .38720 | .05660 |
| .901 | -1.984 | -23240 | -23090 | -22630 | -23000 | -30320 | -30320 | -32340 | -32380 | .29490 | .16160 |
| .900 | -.946 | -23220 | -22620 | -23300 | -22930 | -32750 | -32750 | -33430 | -32210 | .26280 | .18000 |
| .901 | .097 | -22850 | -23350 | -23650 | -23020 | -32360 | -32360 | -33330 | -32310 | .22710 | .20830 |
| .899 | .644 | -23770 | -23340 | -23050 | -23340 | -31690 | -31690 | -33370 | -33520 | .22870 | .22490 |
| .901 | 1.151 | -23200 | -23260 | -23710 | -24000 | -31570 | -31570 | -32450 | -31770 | .21850 | .23770 |
| .900 | 2.204 | -23700 | -24020 | -24120 | -23610 | -31640 | -31640 | -33610 | -34050 | .19220 | .26590 |
| .899 | 3.245 | -24610 | -23920 | -24770 | -24900 | -32380 | -32380 | -32520 | -32550 | .16880 | .29020 |
| .899 | 4.287 | -24570 | -25980 | -25470 | -25740 | -32330 | -32330 | -33060 | -34480 | .14570 | .31820 |
| .896 | 6.361 | -28030 | -27200 | -28030 | -27810 | -35470 | -35470 | -36600 | -36880 | .08530 | .36570 |
| | GRADIENT | -.00256 | -.00410 | -.00417 | -.00440 | -.00157 | -.00157 | -.00015 | -.00286 | -.02322 | .02552 |

RUN NO. 913/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|---------|---------|---------|---------|---------|---------|--------|--------|---------|--------|
| 1.200 | -6.187 | -31290 | -31080 | -31300 | -31080 | -31840 | -31840 | -32170 | -32580 | .55170 | .26330 |
| 1.200 | -2.072 | -29830 | -30010 | -29830 | -29880 | -30310 | -30310 | -30480 | -31270 | .45910 | .31240 |
| 1.198 | -1.023 | -29670 | -29660 | -29940 | -29530 | -30930 | -30930 | -31700 | -31910 | .43290 | .33200 |
| 1.200 | .029 | -29230 | -29670 | -29470 | -29200 | -30940 | -30940 | -31480 | -31920 | .41400 | .35920 |
| 1.201 | .547 | -28960 | -29180 | -29170 | -29050 | -30630 | -30630 | -31290 | -31610 | .39330 | .37210 |
| 1.200 | 1.074 | -29120 | -29010 | -29220 | -29060 | -30530 | -30530 | -31440 | -31440 | .39330 | .38690 |
| 1.200 | 2.117 | -29250 | -29360 | -29420 | -29320 | -30630 | -30630 | -31280 | -31560 | .37540 | .35440 |
| 1.199 | 3.157 | -29870 | -29750 | -29790 | -29720 | -30450 | -30450 | -31300 | -31600 | .35440 | .43810 |
| 1.199 | 4.201 | -29890 | -29950 | -29980 | -29950 | -30050 | -30050 | -30770 | -31050 | .33510 | .46620 |
| 1.195 | 6.303 | -30920 | -30790 | -30820 | -30910 | -31310 | -31310 | -31180 | -31780 | .30010 | .51680 |
| | GRADIENT | -.00029 | -.00031 | -.00010 | -.00031 | -.00071 | -.00071 | .00006 | .00057 | -.01937 | .02485 |

DATE 10 MAR 80

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AMES 118-1-11 OAI45A 01(-MPS NOZ)

(E2F006) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

RUN NO. 912/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| 1.401 | -6.253 | -29700 | -29600 | -29730 | -29650 | -30780 | -30780 | -30840 | -31080 | .57880 | .35080 |
| 1.405 | -2.093 | -29060 | -29040 | -29100 | -29100 | -30350 | -30350 | -31110 | -31090 | .49960 | .42260 |
| 1.404 | -1.035 | -29040 | -29000 | -29120 | -29050 | -30190 | -30190 | -30450 | -30580 | .48480 | .43470 |
| 1.404 | -0.12 | -29020 | -29120 | -29070 | -29040 | -30110 | -30110 | -30240 | -30430 | .47770 | .44490 |
| 1.404 | .534 | -28830 | -29080 | -29080 | -28950 | -29900 | -29900 | -30150 | -30360 | .47200 | .45030 |
| 1.403 | 1.077 | -28950 | -29140 | -29080 | -28980 | -29910 | -29910 | -30060 | -30330 | .46950 | .45310 |
| 1.403 | 2.134 | -29050 | -28990 | -28980 | -29010 | -29710 | -29710 | -29910 | -30310 | .46400 | .46420 |
| 1.403 | 3.179 | -29070 | -29140 | -29150 | -29220 | -29630 | -29630 | -29850 | -30200 | .44860 | .48040 |
| 1.403 | 4.228 | -29010 | -28860 | -28980 | -28890 | -29420 | -29420 | -29700 | -29820 | .42100 | .50220 |
| 1.403 | 6.341 | -28170 | -28200 | -28220 | -28210 | -28730 | -28730 | -28900 | -29290 | .34900 | .54910 |
| 1.403 | GRADIENT | -0.0001 | .00014 | .00013 | .00009 | .00145 | .00145 | .00193 | .00157 | -.01089 | .01184 |

PARAMETRIC DATA

ALPHA = .000
AILRON = .000
SPDBRK = 25.000
RUDDER = 5.000
ELEVON = .000
BDFLAP = .000
RUDDER = .000

AMES 118-1-11 OAI45A 01

(E2F007) (01 SEP 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

RUN NO. 356/ 0 RN/L = 4.91 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.098 | -40.000 | -33860 | -33480 | -33440 | -33260 | -34180 | -34180 | -35130 | -35620 | .40190 | .37730 |
| 1.102 | -20.000 | -33140 | -32830 | -32980 | -33200 | -33950 | -33950 | -34480 | -35610 | .39300 | .36790 |
| 1.104 | .000 | -32290 | -32430 | -32430 | -32260 | -35190 | -35190 | -35770 | -36400 | .38730 | .35550 |
| 1.100 | 20.000 | -33670 | -33590 | -33870 | -33790 | -34430 | -34430 | -34920 | -35670 | .39310 | .35770 |
| 1.102 | 40.000 | -32520 | -33030 | -32630 | -32850 | -34230 | -34230 | -35420 | -35710 | .39680 | .36840 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 |

PARAMETRIC DATA

ALPHA = .000
AILRON = .000
SPDBRK = 25.000
RUDDER = 5.000
ELEVON = .000
BDFLAP = .000
RUDDER = .000

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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(E2F0G7) (01 SEP 77)

AMES 118-1-11 OAI45A 01

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 367/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH

1.199
 1.206
 1.200
 1.204
 1.197
 1.199

Z

-40.000
 -20.000
 -10.000
 .000
 20.000
 40.000
 GRADIENT

CP225
 -31330
 -30050
 -30650
 -31080
 -33000
 -33110
 .00000

CP228
 -31620
 -29950
 -30650
 -30800
 -33200
 -32740
 .00000

CP231
 -31590
 -29970
 -30580
 -30630
 -33050
 -33170
 .00000

CP234
 -31560
 -30030
 -30610
 -30860
 -33200
 -33020
 .00000

CP237
 -32060
 -31100
 -31510
 -31930
 -33360
 -33530
 .00000

CP240
 -32060
 -31100
 -31510
 -31930
 -33360
 -33530
 .00000

CP243
 -32570
 -31720
 -32290
 -32240
 -34150
 .00000

CP246
 -33160
 -32350
 -32990
 -32970
 -35100
 -34680
 .00000

CP12
 .40030
 .40860
 .40310
 .40530
 .40510
 .00000

CP13
 .36220
 .36890
 .36570
 .36460
 .35990
 .37620
 .00000

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BOFLAP = .000 SPOBRK = 25.000
 RUDDER = .000 RN/L = 5.000

PARAMETRIC DATA

AMES 118-1-11 OAI45A 01

(E2F0G8) (01 SEP 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

RUN NO. 886/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH

.951
 .951
 .953
 .952
 .952
 .951
 .953
 .952
 .951
 .948

Z

-40.000
 -30.000
 -20.000
 -10.000
 -5.000
 .000
 5.000
 10.000
 20.000
 30.000
 40.000
 GRADIENT

CP225
 -24840
 -23910
 -23990
 -23870
 -23970
 -23800
 -23930
 -23560
 -23610
 -23900
 -25300
 .00002

CP228
 -25490
 -24120
 -24190
 -23070
 -23560
 -24030
 -23400
 -23920
 -23710
 -23730
 -24990
 .00016

CP231
 -25790
 -24140
 -24220
 -23710
 -23450
 -24310
 -23790
 -23710
 -23760
 -24160
 -25180
 .00034

CP234
 -25920
 -24120
 -24810
 -23790
 -23220
 -24750
 -23580
 -23970
 -23770
 -23760
 -24040
 -24790
 .00036

CP237
 -31840
 -32830
 -32400
 -32600
 -32390
 -32800
 -32090
 -32190
 -31770
 -32040
 -32310
 .00030

CP240
 -31840
 -32830
 -32400
 -32600
 -32390
 -32800
 -32090
 -32190
 -31770
 -32040
 -32310
 .00030

CP243
 -33230
 -33420
 -32980
 -32930
 -33580
 -34170
 -33800
 -33510
 -33480
 -33470
 -33530
 .00022

CP246
 -34030
 -33430
 -33820
 -33530
 -34180
 -34540
 -34360
 -33890
 -33990
 -34320
 .00018

CP12
 .27690
 .27620
 .27640
 .27330
 .27430
 .27380
 .27350
 .27760
 .27820
 .27820
 .27850
 .00008

CP13
 .24960
 .23430
 .24260
 .24540
 .24440
 .24140
 .24250
 .24160
 .24050
 .24370
 .24410
 .00019

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BOFLAP = .000 SPOBRK = .000
 RUDDER = .000 RN/L = 5.000

PARAMETRIC DATA

AMES 118-1-11 0A145A 01

(E2F0G8) (01 SEP 77)

REFERENCE DATA

| | | | |
|------|---|-----------|--------|
| XMRP | = | 2690.0000 | SQ.FT. |
| YMRP | = | 474.8100 | INCHES |
| ZMRP | = | 936.6800 | INCHES |
| | = | .0500 | SCALE |

- ALPHA
- ELEVEN
- BD FLAP
- RUDDER

| | | | |
|-------|--------|---|-------|
| 5.000 | BETA | = | .000 |
| .000 | AILRON | = | .000 |
| .000 | SPOBRK | = | .000 |
| .000 | RN/L | = | 5.000 |

PARAMETRIC DATA

| | | | |
|---------|--------|-------------|---------------------------------|
| RUN NO. | 887/ 0 | RN/L = 5.00 | GRADIENT INTERVAL = -5.00/ 5.00 |
|---------|--------|-------------|---------------------------------|

[illegible]

| | | | |
|---------|--------|-------------|---------------------------------|
| RUN NO. | 889/ 0 | RN/L = 4.99 | GRADIENT INTERVAL = -5.00/ 5.00 |
|---------|--------|-------------|---------------------------------|

[illegible]

| | | | | | |
|---------|--------|--------|------|---------------------|-------------|
| RUN NO. | 894/ 0 | RN/L = | 5.01 | GRADIENT INTERVAL = | -5.00/ 5.00 |
|---------|--------|--------|------|---------------------|-------------|

[illegible]

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

AMES 118-1-11 OAI45A 01

(E2F008) (01 SEP 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

ALPHA = 5.000 BETA = .000
ELEVON = .000 AILRON = .000
BDFLAP = .000 SPDBRK = .000
RUDDER = .000 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 895/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | Z | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.400 | -40.000 | -26790 | -26890 | -27010 | -27030 | -28250 | -28250 | -28180 | -28630 | .48410 | .44850 |
| 1.405 | -30.000 | -28020 | -28180 | -28180 | -28050 | -29060 | -29060 | -29420 | -29330 | .47510 | .44500 |
| 1.409 | -20.000 | -28340 | -28400 | -28310 | -28400 | -29460 | -29460 | -29680 | -30050 | .47910 | .45130 |
| 1.407 | -10.000 | -29330 | -29380 | -29180 | -29380 | -30390 | -30390 | -30600 | -30890 | .47680 | .44820 |
| 1.407 | .000 | -29240 | -29090 | -29000 | -29040 | -29990 | -29990 | -30410 | -30590 | .47890 | .45030 |
| 1.404 | 10.000 | -28470 | -28200 | -28220 | -28300 | -29570 | -29570 | -29960 | -30030 | .48200 | .44790 |
| 1.401 | 20.000 | -28850 | -28870 | -28870 | -28870 | -29650 | -29650 | -30320 | -30330 | .48080 | .44960 |
| 1.398 | 30.000 | -27710 | -27860 | -27670 | -27920 | -28480 | -28480 | -28780 | -29010 | .48120 | .44780 |
| 1.399 | 35.000 | -28600 | -28520 | -27870 | -27810 | -29580 | -29580 | -30070 | -30620 | .48030 | .44770 |
| | GRADIENT | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 |

(E2F009) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

Z = -20.000 ALPHA = 5.000
BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = .000 RN/L = 5.000

PARAMETRIC DATA

RUN NO. 892/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 1.199 | -10.771 | -29530 | -29520 | -29400 | -29700 | -31540 | -31540 | -32340 | -32610 | .41110 | .36070 |
| 1.201 | -4.954 | -28970 | -28790 | -28790 | -28830 | -31060 | -31060 | -31670 | -32040 | .41370 | .36220 |
| 1.201 | -2.442 | -28710 | -28540 | -28690 | -28880 | -30940 | -30940 | -31580 | -32260 | .41370 | .36230 |
| 1.199 | -1.123 | -28860 | -28770 | -28690 | -28600 | -31070 | -31070 | -30840 | -32150 | .41140 | .35980 |
| 1.201 | 2.496 | -28360 | -28510 | -28660 | -28810 | -31050 | -31050 | -31050 | -32080 | .41430 | .36120 |
| 1.200 | 5.005 | -29140 | -29010 | -28940 | -29320 | -31320 | -31320 | -31790 | -32330 | .41240 | .35950 |
| 1.200 | 10.027 | -29850 | -29670 | -29800 | -29750 | -31680 | -31680 | -32230 | -32750 | .41240 | .36120 |
| | GRADIENT | .00069 | .00026 | .00017 | .00013 | .00004 | .00004 | .00048 | .00000 | -.00001 | -.00002 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(E2F0H0) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

RUN NO.

890/ 0

5.02

GRADIENT INTERVAL = -5.00/ 5.00

5.00

| | | | | | | | | | | | | |
|----------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MACH | 1.201 | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
| | -10.771 | | -32000 | -32070 | -32020 | -32020 | -32760 | -32760 | -3290 | -33730 | 41400 | 36080 |
| | -4.954 | | -31180 | -31480 | -31440 | -31580 | -32530 | -32530 | -32840 | -33450 | 41070 | 35830 |
| | -2.459 | | -31130 | -31110 | -31140 | -30900 | -32400 | -32400 | -32900 | -33070 | 41150 | 35620 |
| | -1.16 | | -30870 | -31020 | -31040 | -31250 | -31890 | -31890 | -32500 | -33050 | 41440 | 36100 |
| | 2.513 | | -31140 | -31190 | -31170 | -31030 | -32100 | -32100 | -32860 | -33160 | 41320 | 36020 |
| GRADIENT | .00014 | | .00038 | .00038 | .00036 | .00053 | .00072 | .00072 | .00013 | .00036 | .00041 | .00042 |

AMES 118-1-11 OAI45A 01

(E2F0H1) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

RUN NO.

893/ 0

4.99

GRADIENT INTERVAL = -5.00/ 5.00

5.00

| | | | | | | | | | | | | |
|----------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MACH | 1.199 | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
| | -10.762 | | -30750 | -31040 | -30850 | -30680 | -31480 | -31480 | -32360 | -32840 | 41070 | 36540 |
| | -4.954 | | -29870 | -29890 | -29990 | -29860 | -31070 | -31070 | -31730 | -32140 | 40940 | 36560 |
| | -2.451 | | -29950 | -29760 | -29860 | -29710 | -31030 | -31030 | -31880 | -32270 | 40660 | 36240 |
| | -1.16 | | -29560 | -29690 | -29420 | -29420 | -30890 | -30890 | -31700 | -31940 | 40950 | 36490 |
| | 2.496 | | -29610 | -29690 | -29690 | -29650 | -31030 | -31030 | -31250 | -31840 | 40920 | 36250 |
| | 5.024 | | -29990 | -29990 | -29960 | -30090 | -31500 | -31500 | -31900 | -32510 | 40770 | 36000 |
| | 10.003 | | -30410 | -30260 | -30200 | -30310 | -31660 | -31660 | -32190 | -32600 | 40760 | 35950 |
| GRADIENT | .00047 | | .00027 | .00027 | .00053 | .00036 | .00010 | .00010 | .00066 | .00050 | .00009 | .00028 |

12

(E2F0H2) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

Z =
 BETA = 5.000
 AILRON = .000
 BDFLAP = .000
 SPDBRK = .000
 RN/L = 5.000

RUN NO. 891/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|---------|--------|--------|---------|---------|---------|---------|
| 1.201 | -10.754 | -29730 | -29970 | -29790 | -29870 | -31900 | -31900 | -31950 | -32440 | .41160 | .35930 |
| 1.201 | -4.939 | -29310 | -29500 | -29200 | -29110 | -31290 | -31290 | -31690 | -31640 | .41110 | .36010 |
| 1.200 | -2.442 | -29340 | -29470 | -29310 | -29340 | -31080 | -31080 | -31680 | -31680 | .41040 | .36000 |
| 1.200 | -1.103 | -29060 | -29460 | -29280 | -29530 | -31080 | -31080 | -31650 | -31690 | .41050 | .35930 |
| 1.201 | 2.505 | -29280 | -29010 | -29000 | -29070 | -31050 | -31050 | -31710 | -31780 | .41100 | .36000 |
| 1.201 | 5.024 | -29330 | -29430 | -29290 | -29160 | -30770 | -30770 | -31610 | -31640 | .41170 | .36150 |
| 1.201 | 10.003 | -54020 | -13510 | -02070 | -09820 | -31380 | -31380 | -31690 | .00000 | .41190 | .36080 |
| 1.201 | GRADIENT | .00014 | .00061 | .00026 | -.00002 | .00029 | .00029 | -.00001 | -.00018 | -.00001 | -.00004 |

(E2F0H3) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = 2.000
 AILRON = .000
 SPDBRK = 25.000
 RN/L = 5.000

RUN NO. 170/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|-------|----------|---------|--------|--------|
| 1.199 | -9.867 | -.30290 | .29050 | .35420 |
| 1.201 | -4.847 | -.29220 | .32320 | .39740 |
| 1.202 | .181 | -.29270 | .36590 | .42230 |
| 1.199 | 2.872 | -.30440 | .37750 | .42980 |
| 1.196 | 5.543 | -.32020 | .39670 | .43830 |
| 1.200 | 6.350 | -.32010 | .40160 | .44020 |
| 1.195 | 7.539 | -.32820 | .39820 | .44340 |
| 1.198 | 8.549 | -.32870 | .39770 | .45060 |
| 1.200 | 9.310 | -.32200 | .39960 | .45710 |
| 1.196 | 10.599 | -.33000 | .39560 | .45610 |
| 1.199 | 11.412 | -.32350 | .40000 | .46250 |
| 1.197 | 12.609 | -.33110 | .40100 | .45740 |
| 1.199 | 13.652 | -.32950 | .39860 | .45920 |
| 1.195 | 15.909 | -.34670 | .39260 | .45920 |
| 1.194 | 20.655 | -.36090 | .36570 | .45240 |
| | GRADIENT | -.00139 | .00722 | .00429 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(E2F0H3) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETA = .000
AILRON = .000
SPDBRK = 25.000
RN/L = 5.000
ELEVON = .000
BDFLAP = .000
RUDDER = .000

RUN NO. 142/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|-------|----------|---------|--------|---------|
| 1.294 | -5.619 | -.28610 | .34120 | .41480 |
| 1.296 | -.195 | -.29210 | .37220 | .43870 |
| 1.317 | .487 | -.29600 | .38730 | .45490 |
| 1.297 | 1.610 | -.30230 | .39510 | .44550 |
| 1.294 | 2.328 | -.30450 | .39930 | .44220 |
| 1.294 | 5.097 | -.32630 | .40870 | .44370 |
| 1.294 | 6.165 | -.32820 | .41240 | .44790 |
| 1.294 | 7.179 | -.33430 | .41620 | .45170 |
| 1.294 | 8.177 | -.34150 | .42030 | .45010 |
| 1.293 | 9.114 | -.34230 | .42760 | .44990 |
| 1.292 | 10.252 | -.34770 | .42000 | .44950 |
| 1.291 | 11.216 | -.35630 | .42120 | .45060 |
| 1.293 | 12.279 | -.35520 | .43160 | .45520 |
| 1.292 | 13.243 | -.35790 | .42980 | .45740 |
| 1.294 | 15.286 | -.35240 | .42940 | .46390 |
| 1.286 | 20.231 | -.33180 | .41800 | .47430 |
| | GRADIENT | -.00503 | .01009 | -.00027 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA
AMES 118-1-11 OAI45A 01

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(E2FYH3) (19 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 0/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.294 | -5.619 | -27950 | -28040 | -28060 | -28140 | -28610 | -28610 | -29800 | -31140 | .34120 | .41480 |
| 1.296 | -1.195 | -28310 | -28440 | -28300 | -28440 | -29210 | -29210 | -29560 | -29950 | .37220 | .43870 |
| 1.317 | .487 | -28650 | -28830 | -28730 | -28750 | -29600 | -29600 | -29920 | -30330 | .38730 | .45490 |
| 1.297 | 1.610 | -29010 | -29190 | -28940 | -28920 | -30230 | -30230 | -30540 | -30910 | .39510 | .44550 |
| 1.294 | 2.328 | -29760 | -29940 | -29870 | -29760 | -30450 | -30450 | -30800 | -31210 | .39930 | .44220 |
| 1.294 | 5.097 | -30890 | -30860 | -31070 | -31250 | -32630 | -32630 | -32230 | -33100 | .40870 | .44370 |
| 1.294 | 6.165 | -31190 | -31160 | -31070 | -31220 | -32820 | -32820 | -33040 | -33210 | .41240 | .44790 |
| 1.294 | 7.179 | -31150 | -31190 | -31290 | -31700 | -33430 | -33430 | -33150 | -33940 | .41620 | .45170 |
| 1.294 | 8.177 | -31860 | -32270 | -32320 | -32140 | -34150 | -34150 | -33760 | -34150 | .42030 | .45010 |
| 1.293 | 9.114 | -32310 | -32590 | -32880 | -32770 | -34230 | -34230 | -33800 | -34150 | .42760 | .44990 |
| 1.292 | 10.252 | -33260 | -33390 | -33260 | -33120 | -34770 | -34770 | -34730 | -34950 | .42000 | .44950 |
| 1.291 | 11.216 | -33940 | -34130 | -34380 | -34380 | -35630 | -35630 | -35160 | -35790 | .42120 | .45060 |
| 1.293 | 12.279 | -34240 | -34520 | -34160 | -34340 | -35520 | -35520 | -35410 | -35520 | .43160 | .45520 |
| 1.292 | 13.243 | -34670 | -34900 | -34940 | -34970 | -35790 | -35790 | -35650 | -35910 | .42980 | .45740 |
| 1.294 | 15.286 | -34640 | -34740 | -34570 | -34580 | -35240 | -35240 | -35290 | -36070 | .42940 | .46390 |
| 1.294 | 20.231 | -32230 | -32220 | -32330 | -32400 | -33180 | -33180 | -32940 | -33230 | .41800 | .47430 |
| 1.286 | GRADIENT | -00534 | -00550 | -00551 | -00463 | -00503 | -00503 | -00501 | -00502 | .01009 | -00027 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1982

AMES 118-1-11 OAI45A 01

(E2F044) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 INCHES
BREF = 936.6800 INCHES
SCALE = .0500

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BOFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 418/ 0 RN/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|---------|
| .597 | -4.953 | -.21340 | -.03590 | -.03320 |
| .599 | .073 | -.20710 | -.08280 | .07070 |
| .597 | 2.630 | -.21670 | .12480 | .10640 |
| .596 | 5.127 | -.22950 | .15480 | .13250 |
| .596 | 7.186 | -.24000 | .17270 | .14810 |
| .597 | 8.238 | -.24310 | .17700 | .15420 |
| .596 | 10.283 | -.26090 | .18480 | .14760 |
| .595 | 12.322 | -.27600 | .18790 | .14780 |
| .595 | 15.369 | -.31110 | .16620 | .12550 |
| | GRADIENT | -.00020 | .02153 | .01873 |

RUN NO. 98/ 0 RN/L = 4.88 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|---------|--------|--------|
| .900 | -5.029 | -.27990 | .07930 | .08730 |
| .904 | .202 | -.27980 | .18100 | .17390 |
| .898 | 2.827 | -.30950 | .21130 | .19600 |
| .896 | 5.342 | -.35230 | .24440 | .21560 |
| .899 | 6.429 | -.35410 | .24860 | .22840 |
| .900 | 7.426 | -.36140 | .25570 | .23650 |
| .898 | 8.405 | -.37520 | .26010 | .23720 |
| .899 | 9.519 | -.38650 | .27130 | .23950 |
| .898 | 10.498 | -.39700 | .27520 | .23950 |
| .899 | 11.554 | -.41130 | .27990 | .24200 |
| .900 | 12.691 | -.43060 | .28430 | .24570 |
| .898 | 13.621 | -.45130 | .28440 | .24090 |
| .897 | 15.707 | -.49390 | .27190 | .23140 |
| .900 | 20.567 | -.51160 | .23890 | .19330 |
| | GRADIENT | -.01131 | .01154 | .00842 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1983

(E2FYH4) (19 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 0/ 0 RN/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| .597 | -4.953 | -20480 | -20790 | -20570 | -20600 | -21340 | -21340 | -21510 | -22080 | -03590 | -03320 |
| .599 | .073 | -20590 | -20520 | -20280 | -20280 | -20710 | -20710 | -20710 | -21370 | .08280 | .07070 |
| .597 | 2.630 | -20870 | -20780 | -20750 | -20820 | -21670 | -21670 | -22290 | -23000 | .12480 | .10640 |
| .596 | 5.127 | -20850 | -20880 | -21140 | -21210 | -22950 | -22950 | -23660 | -25710 | .15480 | .13250 |
| .596 | 7.186 | -21350 | -20730 | -20970 | -20920 | -24000 | -24000 | -25140 | -27910 | .17270 | .14810 |
| .597 | 8.238 | -20660 | -20500 | -20930 | -20950 | -24310 | -24310 | -26110 | -28770 | .17700 | .15420 |
| .596 | 10.283 | -21560 | -21040 | -21370 | -21350 | -26090 | -26090 | -27730 | -30940 | .18480 | .14760 |
| .595 | 12.322 | -22100 | -21980 | -22670 | -21980 | -27600 | -27600 | -31240 | -34770 | .18790 | .14780 |
| .595 | 15.369 | -23250 | -23530 | -23510 | -23890 | -31110 | -31110 | -32680 | -34250 | .16620 | .12550 |
| | GRADIENT | -00047 | .00009 | -00012 | -00016 | -00020 | -00020 | -00066 | -00085 | .02153 | .01873 |

AMES 118-1-11 OAI45A 01

(E2F0H5) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 99/ 0 RN/L = 4.88 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|--------|--------|--------|
| .897 | -5.439 | -28210 | .06690 | .07520 |
| .903 | -.038 | -28300 | .17570 | .16990 |
| .899 | 2.334 | -30190 | .20810 | .19400 |
| .897 | 5.055 | -35050 | .23630 | .21450 |
| .898 | 7.246 | -36720 | .25180 | .23250 |
| .900 | 8.182 | -36920 | .26180 | .24190 |
| .899 | 10.292 | -38900 | .27760 | .24150 |
| .896 | 12.304 | -42090 | .28050 | .24410 |
| .897 | 15.440 | -48920 | .27080 | .23480 |
| .889 | 20.472 | -51980 | .22700 | .18100 |
| | GRADIENT | -00797 | .01366 | .01016 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1984

AMES 118-1-11 OAI45A 01

(E2F0H6) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = 10.000
AILRON = .000 BDFLAP = .000
SPOBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 93/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|---------|---------|---------|---------|--------|--------|
| .901 | -4.644 | -28730 | -27910 | -27580 | -28060 | -31530 | -31530 | -31500 | -31140 | .08780 | .08980 |
| .901 | .235 | -27390 | -26710 | -26620 | -26760 | -32290 | -32290 | -33340 | -34180 | .17880 | .16900 |
| .900 | 2.732 | -27510 | -27780 | -27750 | -27810 | -37480 | -37480 | -37400 | -39150 | .20890 | .19360 |
| .898 | 5.300 | -28690 | -28420 | -28350 | -28090 | -38020 | -38020 | -38060 | -38770 | .24740 | .21570 |
| .901 | 8.373 | -28930 | -27930 | -28170 | -28400 | -36250 | -36250 | -36420 | -36680 | .27140 | .23860 |
| .900 | 10.412 | -29810 | -29660 | -29240 | -29910 | -37660 | -37660 | -37990 | -37690 | .27800 | .24350 |
| .899 | 12.492 | -31850 | -30820 | -30820 | -30970 | -40240 | -40240 | -40150 | -40600 | .28390 | .24670 |
| .899 | 15.578 | -36040 | -35440 | -35300 | -35590 | -45390 | -45390 | -46320 | -46270 | .27450 | .23930 |
| .897 | 20.528 | -39260 | -38680 | -39320 | -39200 | -48080 | -48080 | -48170 | -49330 | .23470 | .20200 |
| | GRADIENT | .00180 | .00049 | .00007 | .00066 | -.00717 | -.00717 | -.00742 | -.01022 | .01673 | .01437 |

AMES 118-1-11 OAI45A 01

(E2F0H7) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPOBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 181/ 0 RN/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| .902 | -4.032 | -22780 | -22640 | -22920 | -22460 | -32780 | -32780 | -32810 | -33220 | .34460 | .11600 |
| .901 | -2.968 | -22630 | -22820 | -22670 | -22290 | -32830 | -32830 | -32950 | -33840 | .31990 | .14250 |
| .902 | -1.902 | -22070 | -22510 | -22240 | -22400 | -32790 | -32790 | -32960 | -33780 | .29350 | .16910 |
| .899 | -.843 | -23270 | -23240 | -23290 | -23200 | -33290 | -33290 | -34390 | -34960 | .26240 | .19190 |
| .902 | .031 | -22500 | -22540 | -22620 | -22690 | -33460 | -33460 | -33380 | -33670 | .24290 | .21680 |
| .901 | .426 | -23280 | -22440 | -22540 | -22770 | -32750 | -32750 | -33310 | -33860 | .23350 | .22940 |
| .902 | .956 | -22960 | -22610 | -22740 | -22950 | -33070 | -33070 | -33020 | -33290 | .22330 | .24400 |
| .900 | 2.050 | -23360 | -23260 | -22970 | -23640 | -32040 | -32040 | -32960 | -33510 | .20270 | .27410 |
| .901 | 3.128 | -23220 | -23720 | -23580 | -23460 | -32820 | -32820 | -33550 | -33720 | .17800 | .30130 |
| .899 | 4.183 | -24980 | -25500 | -25090 | -25120 | -34080 | -34080 | -34590 | -34950 | .15410 | .32350 |
| | GRADIENT | -26150 | -26300 | -26180 | -25890 | -34680 | -34680 | -35460 | -35450 | .09520 | .37950 |
| | | .00213 | .00246 | .00202 | .00269 | -.00057 | -.00057 | -.00127 | -.00076 | -.02317 | .02576 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1985

AMES 118-1-11 0A145A 01

(E2F0H8) (16 JUL 77)

REFERENCE DATA

| | | | | | | | |
|-------|---|-----------|---------|------|---|-----------|--------|
| SREF | = | 2690.0000 | SO. FT. | XMRP | = | 1076.6800 | IN. XO |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. YO |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. ZO |
| SCALE | = | .0500 | | | | | |

RUN NO. 333/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

| | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| MACH | | | | | | | | | | | |
| .398 | -3.451 | -23470 | -23500 | -23160 | -22710 | -29590 | -29590 | -32160 | -35180 | .20040 | -.07270 |
| .397 | -2.938 | -24030 | -23790 | -24450 | -24590 | -30510 | -30510 | -32920 | -34610 | .17390 | -.05770 |
| .397 | -1.858 | -24310 | -23420 | -24450 | -24000 | -30740 | -30740 | -33110 | -34520 | .13720 | -.02090 |
| .398 | -1.332 | -23660 | -24200 | -24160 | -24120 | -30120 | -30120 | -32180 | -33920 | .12640 | .00860 |
| .397 | -.809 | .44750 | -19250 | -07070 | -03950 | -30280 | -30280 | -33030 | .00000 | .02100 | .03646 |
| GRADIENT | | .17920 | .01016 | .04235 | .04954 | .00151 | .00151 | .00139 | .09346 | -.03331 | |

| | | | | | |
|--------|---|--------|--------|---|------|
| ALPHA | = | 20.000 | ELEVON | = | .000 |
| AILRON | = | .000 | BDFLAP | = | .000 |
| SPDBRK | = | 25.000 | RUDDER | = | .000 |
| RN/L | = | 5.000 | | | |

AMES 118-1-11 0A145A 01

(E2F0H9) (16 JUL 77)

REFERENCE DATA

| | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|--------|
| SREF | = | 2690.0000 | SO.FT. | XMRP | = | 1076.6800 | IN. ZO |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. ZO |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. ZO |
| SCALE | = | .0500 | | | | | |

| | | | | | | |
|---------|--------|--------|------|---------------------|--------|------|
| RUN NO. | 423/ 0 | RN/L = | 4.94 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|---------|--------|--------|------|---------------------|--------|------|

[illegible]

(E2F010) (06 MAR 30)

REFERENCE DATA

| | | |
|-------|---|-----------|
| SREF | = | 2690.0000 |
| LREF | = | 474.8100 |
| BREF | = | 936.6800 |
| SCALE | = | .0500 |

| | | | |
|---|-----------|-----|----|
| = | 1076.6800 | IN. | X0 |
| = | .0000 | IN. | Y0 |
| = | 375.0000 | IN. | Z0 |

PARAMETRIC DATA

| | | | | | |
|--------|---|--------|--------|---|------|
| ALPHA | = | 2.000 | ELEVON | = | .000 |
| AILRON | = | .000 | BDFLAP | = | .000 |
| SPDBRK | = | 87.200 | RUDDER | = | .000 |
| RN/L | = | 5.000 | | | |

| | | | | | | |
|---------|--------|--------|------|---------------------|--------|------|
| RUN NO. | 478/ 0 | RN/L = | 5.00 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|---------|--------|--------|------|---------------------|--------|------|

| MACH | BETA | CP240 | CP12 | CP13 |
|------|----------|---------|---------|--------|
| .952 | -6.174 | -.33560 | .37760 | .07640 |
| .953 | -2.009 | -.35430 | .29360 | .16880 |
| .950 | -.957 | -.37430 | .26470 | .18890 |
| .950 | .095 | -.37860 | .24510 | .21530 |
| .952 | .601 | -.37760 | .23560 | .22950 |
| .951 | 1.122 | -.39070 | .22350 | .23990 |
| .950 | 2.169 | -.39310 | .19950 | .26350 |
| .950 | 3.218 | -.41200 | .17680 | .28730 |
| .950 | 4.249 | -.41670 | .15720 | .31040 |
| .947 | 6.301 | -.43260 | .11360 | .35540 |
| .948 | 8.339 | -.43430 | .07300 | .40670 |
| | GRADIENT | -.00980 | -.02162 | .02290 |

AMES 118-1-11 0A145A 01

(E2F011) (08 JUL 77)

REFERENCE DATA

| | | |
|-------|---|-----------|
| SREF | = | 2690.0000 |
| LREF | = | 474.8100 |
| BREF | = | 936.6800 |
| SCALE | = | .0500 |

| | | | |
|---|-----------|-----|----|
| = | 1076.6800 | IN. | X0 |
| = | .0000 | IN. | Y0 |
| = | 375.0000 | IN. | Z0 |

PARAMETRIC DATA

| | | | | | |
|--------|---|--------|--------|---|------|
| BETA | = | .000 | ELEVON | = | .000 |
| AILRON | = | .000 | BDFLAP | = | .000 |
| SPDBRK | = | 87.200 | RUDDER | = | .000 |
| RN/L | = | 5.000 | | | |

RUN NO. 483/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

| | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP246 | CP12 | CP13 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MACH | | | | | | | | | |
| ALPHA | | | | | | | | | |
| .590 | -29130 | -28980 | -29270 | -28780 | -27160 | -27160 | -28110 | -04330 | -03870 |
| .592 | -27340 | -27340 | -27310 | -27190 | -25050 | -25050 | -28220 | -07880 | -06480 |
| .597 | -27540 | -27610 | -27250 | -27440 | -27700 | -27700 | -29830 | 12720 | 12720 |
| .597 | -27220 | -27270 | -27320 | -27080 | -29380 | -29360 | -34700 | 18500 | 15140 |
| .599 | -28600 | -28170 | -28830 | -29190 | -33570 | -33570 | -36420 | 17130 | 12660 |
| GRADIENT | -00040 | -00053 | .00012 | -00050 | -00525 | -00525 | -00973 | 01448 | 01236 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1987

(E2F012) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 55.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 537/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1.203 | -6.104 | -31330 | -31550 | -31380 | -31230 | -31880 | -31880 | -31900 | -31780 | -54910 | -26310 |
| 1.204 | -1.960 | -31280 | -31330 | -30880 | -30910 | -31450 | -31450 | -31400 | -31450 | -46260 | -31870 |
| 1.203 | -.924 | -31750 | -31510 | -31480 | -31450 | -31790 | -31790 | -32500 | -33500 | -44060 | -34110 |
| 1.204 | .031 | -31510 | -31320 | -31320 | -31110 | -31950 | -31950 | -32850 | -32880 | -41920 | -36480 |
| 1.202 | .559 | -31840 | -31540 | -31560 | -31340 | -32090 | -32090 | -32590 | -33010 | -41140 | -37610 |
| 1.204 | 1.055 | -31070 | -31190 | -31120 | -31340 | -32050 | -32050 | -32610 | -32650 | -40050 | -38530 |
| 1.201 | 2.127 | -31540 | -31300 | -31380 | -31530 | -31990 | -31990 | -32310 | -33090 | -38330 | -41250 |
| 1.201 | 3.176 | -31430 | -31840 | -31530 | -31150 | -32220 | -32220 | -32320 | -32950 | -36150 | -43760 |
| 1.200 | 4.228 | -31670 | -32170 | -31740 | -31780 | -32200 | -32200 | -33110 | -33300 | -33940 | -46430 |
| 1.199 | 6.324 | -32400 | -31570 | -31660 | -31850 | -32480 | -32480 | -32920 | -33820 | -30720 | -51220 |
| | GRADIENT | -.00014 | -.00110 | -.00091 | -.00084 | -.00105 | -.00105 | -.00142 | -.00157 | -.01952 | -.02348 |

AMES 118-1-11 OAI45A 01

(E2F013) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
 ELEVON = .000 AILRON = .000
 BOFLAP = .000 SPDBRK = 55.000
 RN/L = 5.000

RUN NO. 519/ 0 RN/L = 4.76 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | RUDDER | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1.404 | -14.736 | -30780 | -30680 | -30700 | -30650 | -30840 | -30840 | -31110 | -31360 | -47920 | -44460 |
| 1.404 | -10.664 | -30740 | -30950 | -31000 | -30820 | -31020 | -31020 | -31240 | -31450 | -47650 | -44330 |
| 1.404 | -5.433 | -30660 | -30750 | -30760 | -30800 | -30930 | -30930 | -31210 | -31410 | -47730 | -44270 |
| 1.446 | -2.768 | -60360 | -60360 | -60230 | -60380 | -60780 | -60780 | -60800 | -61290 | -40820 | -36180 |
| 1.404 | -.089 | -30200 | -30430 | -30140 | -30390 | -30720 | -30720 | -30910 | -31130 | -47640 | -44080 |
| | GRADIENT | -.33812 | -.33898 | -.33742 | -.33891 | -.34163 | -.34163 | -.34242 | -.34507 | -.33028 | -.29967 |

DATE 10 MAR 80

0A145 TABULATED FORCE DATA

PAGE 1988

AMES 118-1-11 0A145A 01

(E2F014) (06 MAR 80)

REFERENCE DATA

| | | | | | | | |
|-------|---|-----------|---------|------|---|-----------|--------|
| SREF | = | 2690.0000 | SO. FT. | XMRP | = | 1076.6800 | IN. ZO |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. ZO |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. ZO |
| SCALE | = | .0500 | | | | | |

RUN NO. 689/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

| | | | | | |
|--------|---|-------|--------|---|--------|
| ALPHA | = | 5.000 | BETA | = | .000 |
| ELEVON | = | .000 | AILRON | = | .000 |
| BDFLAP | = | .000 | SPDBRK | = | 15.000 |
| RN/L | = | 5.000 | | | |

| | CP12 | CP13 |
|----------|---------|---------|
| MACH | 2.4400 | 2.1440 |
| .899 | .2430 | .2130 |
| .901 | .2420 | .2140 |
| .901 | .2430 | .2150 |
| .901 | .24370 | .21550 |
| .899 | .23940 | .20820 |
| .901 | .23810 | .21330 |
| .900 | .23880 | .20970 |
| .900 | .24350 | .21540 |
| .900 | .24160 | .21210 |
| .900 | .24150 | .21020 |
| .899 | .24190 | .20940 |
| .899 | .24030 | .20940 |
| | -.00055 | -.00051 |
| GRADIENT | .00052 | |

REFERENCE DATA

| | | | | | | | |
|-------|---|-----------|--------|------|---|-----------|--------|
| SREF | = | 2690.0000 | SG.FT. | XMRP | = | 1076.6800 | IN. ZO |
| LREF | = | 474.8100 | INCHES | YMRP | = | .0000 | IN. ZO |
| BREF | = | 936.6800 | INCHES | ZMRP | = | 375.0000 | IN. ZO |
| SCALE | = | .0500 | | | | | |

| | | | | | | |
|---------|--------|--------|------|---------------------|--------|------|
| RMN NO. | 716/ 0 | RN/L = | 4.95 | GRADIENT INTERVAL = | -5.00/ | 5.00 |
|---------|--------|--------|------|---------------------|--------|------|

AMES 118-1-11 0A145A 01

(E2F015) (01 SEP 77)

PARAMETRIC DATA

| | | | | | |
|--------|---|--------|--------|---|------|
| BETA | = | .000 | ELEVON | = | .000 |
| AILRON | = | .000 | BDFLAP | = | .000 |
| SPDBRK | = | 40.000 | RUDDER | = | .000 |
| RN/L | = | 5.000 | | | |

[illegible]

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

PAGE 1989

AMES 118-1-11 OAI45A 01

(E2F016) (08 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = 5.000 BETA = 2.000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 818/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ELEVON | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP245 | CP12 | CP13 |
|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------|--------|
| .900 | -30.298 | -1.19510 | -1.18620 | -1.18460 | -1.18740 | -1.18870 | -1.18870 | -1.18030 | -1.18590 | .19340 | .26780 |
| .903 | -19.743 | -1.19470 | -1.18720 | -1.18700 | -1.19310 | -1.23130 | -1.23130 | -1.24220 | -1.24470 | .19840 | .27230 |
| .899 | -17.282 | -1.20120 | -1.19810 | -1.19730 | -1.19970 | -1.23860 | -1.23860 | -1.24040 | -1.24160 | .19010 | .26660 |
| .901 | -14.950 | -1.20800 | -1.19680 | -1.20300 | -1.20350 | -1.26070 | -1.26070 | -1.26360 | -1.26940 | .19020 | .26600 |
| .899 | -9.955 | -1.21300 | -1.20890 | -1.21110 | -1.20890 | -1.29390 | -1.29390 | -1.29730 | -1.29950 | .18870 | .26420 |
| .899 | -5.945 | -1.22350 | -1.22040 | -1.22240 | -1.22290 | -1.31590 | -1.31590 | -1.32920 | -1.32190 | .18640 | .26270 |
| .900 | -3.939 | -1.22080 | -1.22180 | -1.22180 | -1.21960 | -1.31690 | -1.31690 | -1.32140 | -1.32460 | .19090 | .26570 |
| .901 | -1.942 | -1.23280 | -1.23570 | -1.23410 | -1.23070 | -1.32220 | -1.32220 | -1.32750 | -1.32560 | .18970 | .26530 |
| .901 | .005 | -1.24860 | -1.24430 | -1.23870 | -1.24000 | -1.31760 | -1.31760 | -1.32020 | -1.32490 | .19220 | .26840 |
| .902 | 2.012 | -1.25020 | -1.25260 | -1.24990 | -1.24440 | -1.32000 | -1.32000 | -1.32900 | -1.32170 | .19120 | .26770 |
| .903 | 4.013 | -1.25700 | -1.25850 | -1.25900 | -1.25900 | -1.32590 | -1.32590 | -1.33840 | -1.32900 | .19280 | .26740 |
| .901 | 6.006 | -1.27060 | -1.26980 | -1.26400 | -1.26480 | -1.33390 | -1.33390 | -1.35570 | -1.34290 | .19170 | .26790 |
| .900 | 10.011 | -1.28940 | -1.29830 | -1.29100 | -1.29030 | -1.34860 | -1.34860 | -1.37240 | -1.35740 | .19340 | .26950 |
| .901 | 15.017 | -1.29890 | -1.29100 | -1.30010 | -1.29870 | -1.36280 | -1.36280 | -1.37240 | -1.37930 | .19060 | .26840 |
| | GRADIENT | -.00452 | -.00455 | -.00491 | -.00466 | -.00080 | -.00080 | -.00198 | -.00025 | .00027 | .00019 |

AMES 118-1-11 OAI45A 01

(E2F017) (06 MAR 80)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 7.500 RUDDER = .000
 RN/L = 5.000

RUN NO. 898/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP240 | CP12 | CP13 |
|------|----------|----------|--------|--------|
| .951 | -5.284 | -1.37580 | .13040 | .12850 |
| .950 | -2.248 | -1.34840 | .22030 | .19380 |
| .949 | 2.289 | -1.35960 | .25000 | .21780 |
| .949 | 4.877 | -1.32900 | .27590 | .23890 |
| .949 | 7.959 | -1.36690 | .29930 | .25970 |
| .950 | 10.008 | -1.37670 | .31050 | .26970 |
| .950 | 12.039 | -1.40040 | .31080 | .26780 |
| | GRADIENT | .00381 | .01085 | .00880 |

0A145 TABULATED FORCE DATA

AMES 118-1-11 0A145A 01

DATE 10 MAR 80

(E2F018) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BOFLAP = 16.300
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

RUN NO. 283/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|
| .952 | -5.082 | -29330 | -29710 | -29180 | -29230 | -39800 | -39800 | -40680 | -42040 | .13480 | .14070 |
| .952 | -.055 | -30500 | -30580 | -30250 | -30380 | -38020 | -38020 | -38570 | -39430 | .21940 | .20210 |
| .949 | 2.483 | -30440 | -30640 | -30970 | -30770 | -37430 | -37430 | -38440 | -39320 | .25540 | .23210 |
| .955 | 5.013 | -28060 | -28520 | -27950 | -28180 | -34440 | -34440 | -34770 | -36220 | .28180 | .25300 |
| .949 | 6.032 | -28200 | -27790 | -28070 | -28000 | -36260 | -36260 | -37170 | -37940 | .28850 | .25700 |
| .949 | 7.058 | -26840 | -27080 | -26790 | -27310 | -34580 | -34580 | -35160 | -35150 | .30170 | .26200 |
| .951 | 8.083 | -27630 | -27320 | -26770 | -27550 | -34530 | -34530 | -35570 | -35870 | .30520 | .26950 |
| | GRADIENT | .00024 | -.00024 | -.00284 | -.00154 | .00232 | .00232 | .00051 | .00043 | .01418 | .00788 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0500

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BOFLAP = -11.700
SPDBRK = 25.000 RUDDER = .000
RN/L = 5.000

AMES 118-1-11 0A145A 01

(E2F019) (16 JUL 77)

RUN NO. 444/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| .396 | -4.996 | -23220 | -23500 | -23500 | -23220 | -23690 | -23690 | -23790 | -24570 | -.06750 | -.06840 |
| .396 | -.716 | -23820 | -23110 | -23040 | -22970 | -22050 | -22050 | -21730 | -22050 | .04410 | .03050 |
| .395 | .029 | -23520 | -23370 | -23060 | -23590 | -22480 | -22480 | -22200 | -22690 | .05630 | .04310 |
| .397 | 2.505 | -21480 | -21100 | -21480 | -21410 | -21190 | -21190 | -21720 | -22630 | .11940 | .10190 |
| .396 | 5.021 | -21810 | -21810 | -21810 | -21810 | -22510 | -22510 | -23530 | -25210 | .14880 | .13040 |
| .396 | 6.904 | -21770 | -22010 | -21770 | -22010 | -23730 | -23730 | -25130 | -27830 | .16240 | .14310 |
| .396 | 8.118 | -21530 | -21530 | -21740 | -21570 | -24470 | -24470 | -25630 | -29300 | .17250 | .14580 |
| .396 | 10.140 | -22080 | -21870 | -21800 | -22230 | -26390 | -26390 | -29020 | -32670 | .17450 | .14560 |
| .396 | 12.182 | -22300 | -22340 | -22060 | -22410 | -26960 | -26960 | -30470 | -34930 | .17450 | .14470 |
| .396 | 15.232 | -22350 | -21680 | -21820 | -22170 | -31090 | -31090 | -34500 | -39480 | .14990 | .11170 |
| | GRADIENT | .00189 | .00276 | .00242 | .00195 | .00321 | .00321 | .00284 | .00279 | .02489 | .02264 |

DATE 10 MAR 80

OAI45 TABULATED FORCE DATA

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AMES 118-1-11 OAI45A 01

(E2F0J0) (16 JUL 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0500

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 25.000 RUDDER = .000
 RN/L = 5.000

RUN NO. 419/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP225 | CP228 | CP231 | CP234 | CP237 | CP240 | CP243 | CP246 | CP12 | CP13 |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .597 | -6.158 | -21320 | -21150 | -21180 | -21180 | -21610 | -21610 | -21530 | -22220 | .19920 | -.05750 |
| .597 | -2.082 | -20620 | -20460 | -20580 | -20600 | -21130 | -21130 | -21010 | -21650 | .12160 | .02420 |
| .597 | -1.038 | -20530 | -20670 | -20530 | -21080 | -20810 | -20810 | -20900 | -21380 | .10440 | .04780 |
| .598 | .033 | -20810 | -20670 | -20360 | -20620 | -20540 | -20540 | -20990 | -21400 | .08300 | .07120 |
| .598 | .547 | -20640 | -20620 | -20640 | -20570 | -20820 | -20820 | -20680 | -21170 | .07560 | .08030 |
| .598 | 1.065 | -20530 | -20480 | -20200 | -20480 | -20930 | -20930 | -20650 | -21020 | .06340 | .08820 |
| .598 | 2.120 | -20900 | -21130 | -21020 | -21130 | -20960 | -20960 | -20910 | -20960 | .04520 | .10990 |
| .598 | 3.160 | -21210 | -21420 | -21490 | -21180 | -20940 | -20940 | -21130 | -21440 | .02190 | .13240 |
| .597 | 4.193 | -21410 | -21620 | -21360 | -21690 | -21430 | -21430 | -21050 | -21950 | -.00180 | .15090 |
| .597 | 6.250 | -22090 | -21430 | -21880 | -21760 | -21400 | -21400 | -21520 | -21900 | -.03580 | .19750 |
| .597 | GRADIENT | -.00132 | -.00188 | -.00169 | -.00140 | -.00055 | -.00055 | -.00021 | -.00023 | -.01959 | .02004 |

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